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=> e horwitz marcus a/au
E1          1      HORWITZ MARC STEVEN/AU
E2          4      HORWITZ MARCUS/AU
E3      221 --> HORWITZ MARCUS A/AU
E4          1      HORWITZ MARK H/AU
E5      119      HORWITZ MARSHALL/AU
E6      161      HORWITZ MARSHALL S/AU
E7          8      HORWITZ MARSHALL S Z/AU
E8          1      HORWITZ MARSHALL SCOTT/AU
E9          1      HORWITZ MARTHA KAUFER/AU
E10         1      HORWITZ MASHALL/AU
E11         1      HORWITZ MAXIM D/AU
E12         1      HORWITZ MICHAEL/AU

=> s e2-e3 and tuberculosis and vaccin?
L1          71 ("HORWITZ MARCUS"/AU OR "HORWITZ MARCUS A"/AU) AND TUBERCULOSIS
AND VACCIN?

=> dup rem 11
PROCESSING COMPLETED FOR L1
L2          39 DUP REM L1 (32 DUPLICATES REMOVED)

=> d bib ab 1-
YOU HAVE REQUESTED DATA FROM 39 ANSWERS - CONTINUE? Y/(N):y

L2  ANSWER 1 OF 39  BIOSIS  COPYRIGHT (c) 2006 The Thomson Corporation  on STN
AN  2006:335545  BIOSIS
DN  PREV200600340001
TI  Abundant extracellular products and methods for their production and use.
AU  Horwitz, Marcus A. [Inventor]; Harth, Gunter [Inventor]
CS  Los Angeles, CA USA
ASSIGNEE: The Regents of The University of California
PI  US 07002002 20060221
SO  Official Gazette of the United States Patent and Trademark Office Patents,
(FEB 21 2006)
CODEN: OGUPE7. ISSN: 0098-1133.
DT  Patent
LA  English
ED  Entered STN: 5 Jul 2006
Last Updated on STN: 5 Jul 2006
AB  Vaccines based on one or more combinations of majorly abundant
extracellular products of pathogens and methods for their use and
production are presented. The most prevalent or majorly abundant
extracellular products of a target pathogen are selected irrespective of
their absolute molecular immunogenicity and used as vaccines to
stimulate a protective immune response in mammalian hosts against
subsequent infection by the target pathogen. The majorly abundant
extracellular products may be characterized and distinguished by their
respective N-terminal amino acid, amino acid, or DNA sequences. As the
vaccines may comprise different combinations of the extracellular
products, subunits thereof, or encoding nucleic acids, a broad range of
effective immunotherapeutic compositions are provided by the present
invention. In addition to other infectious agents, the vaccines
so produced can be used to stimulate an effective immune response against
intracellular pathogens and in particular Mycobacterium
tuberculosis.

L2  ANSWER 2 OF 39  USPATFULL on STN
AN  2006:215520  USPATFULL
TI  Treatment of mycobacterium tuberculosis with antisense
oligonucleotides
IN  Horwitz, Marcus A., Los Angeles, CA, UNITED STATES
      Harth, Gunter, Los Angeles, CA, UNITED STATES
      Zamecnik, Paul C, Boston, MS, UNITED STATES
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PI Tabatadze, David, Marlborough, MA, UNITED STATES
US 2006183676 A1 20060817
AI US 2002-478268 A1 20020520 (10)
WO 2002-US15963 20020520
20031118 PCT 371 date
PRAI US 2001-292096P 20010518 (60)
DT Utility
FS APPLICATION
LREP GATES & COOPER LLP, HOWARD HUGHES CENTER, 6701 CENTER DRIVE WEST, SUITE 1050, LOS ANGELES, CA, 90045, US
CLMN Number of Claims: 21
ECL Exemplary Claim: 1
DRWN 22 Drawing Page(s)
LN.CNT 3112

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods of inhibiting the proliferation of *Mycobacterium tuberculosis* comprising contacting *Mycobacterium tuberculosis* with an effective amount of a polynucleotide complementary to an mRNA transcript expressed by *Mycobacterium tuberculosis* are provided. Typical methods of the invention utilize phosphorothioate modified antisense polynucleotides (PS-ODNs) against the mRNA of *M. tuberculosis* genes such as glutamine synthetase, aroA, ask, groES, and the genes of the Antigen 85 complex. Optionally, the methods employ multiple antisense polynucleotides targeting different *Mycobacterium tuberculosis* transcripts. In preferred embodiments of the invention, the antisense polynucleotides are complementary to the 5' regions of the *Mycobacterium tuberculosis* transcripts.

L2 ANSWER 3 OF 39 USPATFULL on STN
AN 2006:214601 USPATFULL
TI Abundant extracellular products and methods for their production and use
IN Horwitz, Marcus A., Los Angeles, CA, UNITED STATES
Harth, Gunter, Los Angeles, CA, UNITED STATES
PI US 2006182754 A1 20060817
AI US 2006-334951 A1 20060118 (11)
RLI Continuation of Ser. No. US 2001-953413, filed on 14 Sep 2001, GRANTED, Pat. No. US 7002002 Continuation-in-part of Ser. No. US 1998-157689, filed on 21 Sep 1998, GRANTED, Pat. No. US 6599510 Continuation of Ser. No. US 1996-652842, filed on 23 May 1996, ABANDONED
DT Utility
FS APPLICATION
LREP PRESTON GATES & ELLIS LLP, 1900 MAIN STREET, SUITE 600, IRVINE, CA, 92614-7319, US
CLMN Number of Claims: 11
ECL Exemplary Claim: 1-11
DRWN 12 Drawing Page(s)
LN.CNT 3961

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irrespective of their absolute molecular immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their respective N-terminal amino acid, amino acid, or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compositions are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular

Mycobacterium tuberculosis.

L2 ANSWER 4 OF 39 USPATEFULL on STN
AN 2006:167740 USPATEFULL
TI Anti-microbial agents derived from methionine sulfoximine analogues
IN Harth, Gunther, Los Angeles, CA, UNITED STATES
Griffith, Owen W, Milwaukee, WI, UNITED STATES
Horwitz, Marcus A, Los Angeles, CA, UNITED STATES
PI US 2006142251 A1 20060629
AI US 2003-534660 A1 20031117 (10)
WO 2003-US36705 20031117
20051128 PCT 371 date
PRAI US 2002-426502P 20021115 (60)
US 2002-430407P 20021202 (60)
DT Utility
FS APPLICATION
LREP PRESTON GATES & ELLIS LLP, 1900 MAIN STREET, SUITE 600, IRVINE, CA,
92614-7319, US
CLMN Number of Claims: 14
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 1134

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel antimicrobial compositions containing analogues of L-methionine-SR-sulfoximine (MSO) that are effective in treating intracellular pathogen infections are provided. Specifically, the compositions provided are MSO analogues having superior antimicrobial activity with significantly less toxicity as compared to MSO. These MSO analogues are suitable for use in treating infection in animals including primates, cows, pigs, horses, rabbits, mice, rats, cats, and dogs. Moreover, the MSO analogues are ideally suited for treating infections caused by the genus *Mycobacterium*. Additionally, methods for using the novel MSO analogues are also provided.

L2 ANSWER 5 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
DUPLICATE 1
AN 2006:324634 BIOSIS
DN PREV200600325284
TI A novel live recombinant mycobacterial vaccine against bovine tuberculosis more potent than BCG.
AU Horwitz, Marcus A. [Reprint Author]; Harth, Guenter; Dillon, Barbara Jane; Maslesa-Galic, Sasa
CS Univ Calif Los Angeles, Sch Med, Dept Med, CHS 37-121,10833 Le Conte Ave, Los Angeles, CA 90095 USA
mhorwitz@mednet.ucla.edu
SO Vaccine, (MAR 6 2006) Vol. 24, No. 10, pp. 1593-1600.
CODEN: VACCDE. ISSN: 0264-410X.
DT Article
LA English
ED Entered STN: 21 Jun 2006
Last Updated on STN: 21 Jun 2006
AB *Mycobacterium bovis* infection of cattle and other domesticated animals exacts a significant economic toll in both economically developing and industrialized countries. Vaccination of herds and/or wild animals that share their grazing land and serve as reservoirs of infection has been proposed as a strategy to combat bovine tuberculosis. However, the only currently available vaccine, *M. bovis* Bacille Calmette-Guerin (BCG), is not highly efficacious. Here we show that a live recombinant vaccine, rBCG30, which expresses large amounts of the *Mycobacterium tuberculosis* 30kDa major secretory protein, is more efficacious against bovine tuberculosis than BCG in the highly demanding guinea pig model of pulmonary tuberculosis. Compared with the parental wild-type BCG strain, rBCG30 administered intradermally induced significantly greater cell-mediated and humoral

immune responses against the 30kDa protein, as determined by measuring cutaneous delayed-type hypersensitivity and antibody titers. As for potency, in three independent experiments, rBCG30 induced greater protective immunity than BCG against aerosol challenge with a highly virulent strain of *M. bovis*, reducing the burden of *M. bovis* by 0.4 +/- 0.2 log colony-forming units (CFU) in the lung ($P < 0.05$) and by 1.1 +/- 0.4 log CFU in the spleen ($P = 0.0005$) below the level in BCG-immunized animals. A recombinant BCG vaccine overexpressing the identical *M. bovis* 30kDa protein, rBCG30Mb, also induced greater cell-mediated and humoral immunity against the 30 kDa protein than BCG and greater protective immunity against *M. bovis* challenge; however, its potency was not significantly different from rBCG30. As rBCG30 is significantly more potent than BCG against *M. bovis* challenge, it has potential as a vaccine against bovine tuberculosis in domesticated animals and in wild animal reservoirs. (c) 2005 Elsevier Ltd. All rights reserved.

L2 ANSWER 6 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
DUPLICATE 2
AN 2006:249836 BIOSIS
DN PREV200600253683
TI Extraordinarily few organisms of a live recombinant BCG vaccine against tuberculosis induce maximal cell-mediated and protective immunity.
AU Horwitz, Marcus A. [Reprint Author]; Harth, Gunter; Dillon, Barbara Jane; Maslesa-Galic, Sasa
CS Univ Calif Los Angeles, Dept Med, Sch Med, CHS 37-121,10833 Le Conte Ave, Los Angeles, CA 90095 USA
mhorwitz@mednet.ucla.edu
SO Vaccine, (JAN 23 2006) Vol. 24, No. 4, pp. 443-451.
CODEN: VACCDE. ISSN: 0264-410X.
DT Article
LA English
ED Entered STN: 26 Apr 2006
Last Updated on STN: 26 Apr 2006
AB In previous studies, we have described a live recombinant BCG vaccine (rBCG30) overexpressing the 30 kDa major secretory protein of *Mycobacterium tuberculosis* that induces greater protective immunity against tuberculosis than the current vaccine in the demanding guinea pig model of pulmonary tuberculosis. In this study, we have investigated the impact of vaccine dose on the development of cell-mediated and protective immunity in the guinea pig model. We found that the protective efficacy against *M. tuberculosis* aerosol challenge of both BCG and rBCG30 was essentially dose-independent over a dose range of 10(1)-10(6) live organisms. As previously observed, rBCG30 was more potent, reducing colony-forming units (CFU) below the level observed in animals immunized with the parental BCG vaccine by 0.7 logs in the lungs and 1.0 logs in the spleen ($P < 0.0001$). To gain a better understanding of the influence of dose on bacterial clearance and immunity, we assessed animals immunized with 10(1), 10(3), or 10(6) CFU of rBCG30. The higher the dose, the higher the peak CFU level achieved in animal organs. However, whereas humoral immune responses to the 30kDa protein reflected the disparate CFU levels, cell-mediated immune responses did not; high and low doses of rBCG30 ultimately induced comparable peak lymphocyte proliferative responses and cutaneous delayed-type hypersensitivity responses to the 30kDa protein. We estimate that the amount of the 30 kDa protein required to induce a strong cell-mediated immune response when delivered via 10 rBCG30 organisms is about 9 orders of magnitude less than that required when the protein is delivered in a conventional protein/adjuvant vaccine. This study demonstrates that a very low inoculum of rBCG30 organisms has the capacity to induce strong protective immunity against tuberculosis and that rBCG30 is an extremely potent delivery system for mycobacterial antigens. (c) 2005 Elsevier Ltd. All

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L2 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:369240 CAPLUS
DN 142:428756
TI Recombinant Mycobacterium BCG as vector for heterologous antigens of intracellular pathogens
IN Horwitz, Marcus A.; Harth, Gunter; Tullius, Michael V.
PA The Regents of the University of California, USA
SO PCT Int. Appl., 105 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005037222	A2	20050428	WO 2004-US34206	20041015
	WO 2005037222	A3	20050909		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1684798	A2	20060802	EP 2004-795381	20041015
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
PRAI	US 2003-512565P	P	20031016		
	WO 2004-US34206	W	20041015		
AB	The authors disclose recombinant attenuated Mycobacterium BCG that has been transformed to express recombinant immunogenic antigens from <i>M. tuberculosis</i> . Exemplary immunogens include, but are not limited to, the major extracellular non-fusion proteins of mycobacteria and/or other intracellular pathogens. Other embodiments are provided wherein the recombinant attenuated intracellular pathogen is auxotrophic.				

are needed to replace BCG, new vaccines are also needed to boost the immune protection of the 4 billion people already vaccinated with BCG. Until now, no booster vaccine has been shown capable of significantly enhancing the level of protective immunity induced by BCG in the stringent guinea pig model of pulmonary tuberculosis, the "gold standard" for testing tuberculosis vaccines. In this paper, we describe a booster vaccine for BCG comprising the purified recombinant *Mycobacterium tuberculosis* 30-kDa protein, the major secreted protein of this pathogen. In the guinea pig model of pulmonary tuberculosis, boosting BCG-immunized animals once with the 30-kDa protein greatly increased cell-mediated and humoral immune responses to the protein in three consecutive experiments. Most importantly, boosting BCG-immunized animals once with the 30-kDa protein significantly enhanced protective immunity against aerosol challenge with highly virulent *M. tuberculosis*, as evidenced by a significantly reduced lung and spleen burden of *M. tuberculosis* compared with those for nonboosted BCG-immunized animals (mean additional reduction in CFU of 0.4 +/- 0.1 log in the lung [P = 0.03] and 0.6 +/- 0.1 log in the spleen [P = 0.002]). This study suggests that administering BCG-immunized people a booster vaccine comprising the 30-kDa protein may enhance their level of immunoprotection against tuberculosis.

L2 ANSWER 9 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
DUPLICATE 4
AN 2005:392196 BIOSIS
DN PREV200510180289
TI Recombinant BCG expressing *Mycobacterium tuberculosis* major extracellular proteins.
AU Horwitz, Marcus A. [Reprint Author]
CS Univ Calif Los Angeles, Dept Med, Sch Med, Los Angeles, CA 90095 USA
mhorwitz@mednet.ucla.edu
SO Microbes and Infection, (MAY 2005) Vol. 7, No. 5-6, pp. 947-954.
ISSN: 1286-4579.
DT Article
LA English
ED Entered STN: 28 Sep 2005
Last Updated on STN: 28 Sep 2005
AB rBCG30, the first vaccine against tuberculosis demonstrated more potent than BCG in preclinical studies, is the prototype of a class of vaccines that utilize BCG as a host organism for expressing and secreting *Mycobacterium tuberculosis* major extracellular proteins. The vaccine is based on the concept that extracellular proteins of intracellular pathogens are key immunoprotective molecules. rBCG30, which expresses and secretes large amounts of the *M. tuberculosis* 30 kDa major secretory protein, is currently in human clinical trials. (c) 2005 Elsevier SAS. All rights reserved.

L2 ANSWER 10 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
DUPLICATE 5
AN 2004:327279 BIOSIS
DN PREV200400330978
TI Abundant extracellular products and methods for their production and use.
AU Horwitz, Marcus A. [Inventor, Reprint Author]
CS ASSIGNEE: The Regents of the University of California
PI US 6761894 20040713
SO Official Gazette of the United States Patent and Trademark Office Patents, (July 13 2004) Vol. 1284, No. 2. <http://www.uspto.gov/web/menu/patdata.htm>
l. e-file.
ISSN: 0098-1133 (ISSN print).
DT Patent
LA English
ED Entered STN: 29 Jul 2004
Last Updated on STN: 29 Jul 2004

AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irrespective of their absolute molecular immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their respective N-terminal amino acid or DNA sequences. As the vaccines may comprise different combinations of the extracellular products or encoding nucleic acids, a broad range effective immunotherapeutic compositions are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

L2 ANSWER 11 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
DUPLICATE 6
AN 2004:315491 BIOSIS
DN PREV200400317776
TI Abundant extracellular product vaccines and methods for their production and use.
AU Horwitz, Marcus A. [Inventor, Reprint Author]
CS ASSIGNEE: The Regents of the University of California
PI US 6752993 20040622
SO Official Gazette of the United States Patent and Trademark Office Patents, (June 22 2004) Vol. 1283, No. 4. <http://www.uspto.gov/web/menu/patdata.htm>
1. e-file.
ISSN: 0098-1133 (ISSN print).
DT Patent
LA English
ED Entered STN: 15 Jul 2004
Last Updated on STN: 15 Jul 2004
AB Vaccines based on majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irrespective of their absolute molecular immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. In addition to other infectious agents, the vaccines-so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

L2 ANSWER 12 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 7
AN 2004:1005855 CAPLUS
DN 141:423309
TI Combinations of abundant extracellular proteins from *Mycobacterium tuberculosis* and methods for their production and use as vaccines
IN Horwitz, Marcus A.; Harth, Gunter; Lee, Bai-Yu
PA USA
SO U.S. Pat. Appl. Publ., 109 pp., Cont.-in-part of U.S. Ser. No. 786,533, abandoned.
CODEN: USXXCO

DT Patent
LA English
FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004228873	A1	20041118	US 2003-695155	20031027
	US 6752993	B1	20040622	US 1993-156358	19931123
	WO 9605223	A1	19960222	WO 1995-US2373	19950224

	W: MX			
US 6761894	B1	20040713	US 1995-447398	19950523
AU 9886140	A1	19990114	AU 1998-86140	19980922
AU 728433	B2	20010111		
JP 2005104983	A2	20050421	JP 2004-321293	20041104
PRAI US 1993-156358	A2	19931123		
US 1994-289667	B2	19940812		
US 1995-447398	A2	19950523		
US 1995-545926	B2	19951020		
US 1995-551149	B2	19951031		
US 1996-652842	B2	19960523		
US 1996-568357	B2	19961206		
US 1997-786533	B2	19970121		
AU 1995-10977	A3	19941118		
JP 1995-515114	A3	19941118		
AB	<p>The inventions involves vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irresp. of their absolute mol. immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their resp. N-terminal amino acid, amino acid, or DNA sequences. The vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids. The vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular <i>Mycobacterium tuberculosis</i>. The invention further claims use of immunodominant epitopes comprising peptide sequences from <i>M. tuberculosis</i> 32A kD protein subunits and an adjuvant selected from IL-12 and MF 59. In addition, the immunodominant epitopes may be used as immunodiagnostic agents for <i>Mycobacterium</i> infections in a mammalian host. Methods of producing abundant extracellular products selected from the group of <i>M. tuberculosis</i> 110 kD, 80 kD, 71 kD, 58 kD, 45 kD, 32A kD, 32B kD, 30 kD, 24 kD, 23.5 kD, 23 kD, 16 kD, 14 kD, and 12 kD proteins comprise transforming <i>M. smegmatis</i> or <i>M. vaccae</i> with nucleic acids encoding a protein and culturing the transformed cell at 28 °C. In the examples, guinea pigs immunized with the 30 kD extracellular protein and then challenged with aerosolized <i>M. tuberculosis</i> were protected against death. Guinea pigs immunized with the 71 kD extracellular protein maintained a consistent body weight over 13 wk after the challenge. The 30 and 71 kD proteins also showed a cell-mediated immune response as measured by skin testing. The 71 kD protein was effective at stimulating cell-mediated immunity in humans as measured by the proliferation of peripheral blood lymphocytes from PPD-pos. individuals.</p>			

L2	ANSWER 13 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 8				
AN	2004:78460 CAPLUS				
DN	140:144684				
TI	Abundant extracellular proteins of <i>Mycobacterium tuberculosis</i> for use in vaccines				
IN	Horwitz, Marcus A.; Harth, Gunter				
PA	The Regents of the University of California, USA				
SO	U.S. Pat. Appl. Publ., 83 pp., Cont.-in-part of U.S. Ser. No. 157,689. CODEN: USXXCO				
DT	Patent				
LA	English				
FAN.CNT	6				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004018209	A1	20040129	US 2001-953413	20010914
	US 7002002	B2	20060221		
	US 6752993	B1	20040622	US 1993-156358	19931123

WO 9605223	A1	19960222	WO 1995-US2373	19950224
W: MX				
US 6761894	B1	20040713	US 1995-447398	19950523
US 6599510	B1	20030729	US 1998-157689	19980921
AU 9886140	A1	19990114	AU 1998-86140	19980922
AU 728433	B2	20010111		
JP 2005104983	A2	20050421	JP 2004-321293	20041104
US 2006182754	A1	20060817	US 2006-334951	20060118
PRAI				
US 1993-156358	A2	19931123		
US 1994-289667	B2	19940812		
US 1995-447398	A2	19950523		
US 1995-551149	B2	19951031		
US 1996-652842	B1	19960523		
US 1996-568357	B2	19961206		
US 1998-157689	A2	19980921		
AU 1995-10977	A3	19941118		
JP 1995-515114	A3	19941118		
US 2001-953413	A1	20010914		
AB	Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irresp. of their absolute mol. immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their resp. N-terminal amino acid, amino acid, or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compns. are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular Mycobacterium tuberculosis. The identification of 14 proteins of 12-110 kDa from culture supernatants of M. tuberculosis is demonstrated. Guinea pigs vaccinated with a 30 kDa protein showed a strong cell-mediated response to challenge with the protein in skin tests. Guinea pigs immunized with this protein showed a stronger immune response to challenge with aerosolized M. tuberculosis and a survival rate of 67% (4/6) compared to 17% (1/6) for sham vaccinated control animals. Use of combinations of proteins in vaccines is also demonstrated.			

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 14 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 9
AN 2004:39602 CAPLUS
DN 140:92569
TI Recombinant Mycobacteria expressing major extracellular non-fusion proteins of Mycobacteria or other intracellular pathogen for inducing immune responses
IN Horwitz, Marcus A.; Harth, Gunter; Tullius, Michael V.
PA The Regents of The University of California, USA
SO U.S. Pat. Appl. Publ., 34 pp., Cont.-in-part of U.S. Pat. Appl. 2003 124,135.
CODEN: USXXCO

DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004009184	A1	20040115	US 2003-439611	20030515
	US 6924118	B2	20050802		
	US 6471967	B1	20021029	US 2000-550468	20000417
	US 2003124135	A1	20030703	US 2002-261981	20020930

CA 2500433	AA 20040415	CA 2003-2500433	20030930
WO 2004031356	A2 20040415	WO 2003-US30994	20030930
WO 2004031356	A3 20040826		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003272808	A1 20040423	AU 2003-272808	20030930
EP 1556081	A2 20050727	EP 2003-755009	20030930
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
BR 2003014937	A 20050802	BR 2003-14937	20030930
CN 1703238	A 20051130	CN 2003-825444	20030930
JP 2006501304	T2 20060112	JP 2004-541966	20030930
PRAI US 2000-550468	A2 20000417		
US 2002-261981	A2 20020930		
US 2003-439611	A 20030515		
WO 2003-US30994	W 20030930		

AB Immunogenic compns. and immunotherapeutics comprising recombinant attenuated intracellular pathogens that have been transformed to express recombinant immunogenic antigens of the same or other intracellular pathogens are provided. Exemplary immunogenic compns. include, but are not limited to attenuated recombinant Mycobacteria, e.g. BCG expressing the major extracellular non-fusion proteins of Mycobacteria and/or other intracellular pathogens. Other embodiments are provided wherein the recombinant attenuated intracellular pathogen is auxotrophic.

RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 15 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
AN 2004:469232 BIOSIS
DN PREV200400474159
TI Abundant extracellular products and methods for their production and use.
AU Horwitz, Marcus A. [Inventor, Reprint Author]; Harth, Gunter [Inventor]
CS ASSIGNEE: The Regents of the University of California
PI US 6818223 20041116
SO Official Gazette of the United States Patent and Trademark Office Patents, (Nov 16 2004) Vol. 1288, No. 3. <http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133 (ISSN print).
DT Patent
LA English
ED Entered STN: 9 Dec 2004
Last Updated on STN: 9 Dec 2004
AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irrespective of their absolute molecular immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their respective N-terminal amino acid or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compositions are provided by the present

invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

L2 ANSWER 16 OF 39 USPATFULL on STN
AN 2004:203910 USPATFULL
TI Anti-microbial agents derived from methionine sulfoximine analogues
IN Horwitz, Marcus, Los Angeles, CA, UNITED STATES
Harth, Gunter, Los Angeles, CA, UNITED STATES
Griffith, Owen W., Milwaukee, WI, UNITED STATES
PI US 2004157802 A1 20040812
AI US 2003-715679 A1 20031117 (10)
PRAI US 2002-426502P 20021115 (60)
US 2002-430407P 20021202 (60)
DT Utility
FS APPLICATION
LREP STRADLING YOCO CARLSON & RAUTH, SUITE 1600, 660 NEWPORT CENTER DRIVE,
P.O. BOX 7680, NEWPORT BEACH, CA, 92660
CLMN Number of Claims: 14
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 1166

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel antimicrobial compositions containing analogues of L-methionine-SR-sulfoximine (MSO) that are effective in treating intracellular pathogen infections are provided. Specifically, the compositions provided are MSO analogues having superior antimicrobial activity with significantly less toxicity as compared to MSO. These MSO analogues are suitable for use in treating infection in animals including primates, cows, pigs, horses, rabbits, mice, rats, cats, and dogs. Moreover, the MSO analogues are ideally suited for treating infections caused by the genus *Mycobacterium*. Additionally, methods for using the novel MSO analogues are also provided.

L2 ANSWER 17 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 10
AN 2004:376404 BIOSIS
DN PREV200400379436
TI A two-plasmid system for stable, selective-pressure-independent expression of multiple extracellular proteins in mycobacteria.
AU Harth, Gunter; Maslesa-Galic, Sasa; Horwitz, Marcus A. [Reprint Author]
CS Dept MedDiv Infect Dis, Univ Calif Los Angeles, 37-121 CHS, 10833 Le Conte Ave, Los Angeles, CA, 90095, USA
mhorwitz@mednet.ucla.edu
SO Microbiology (Reading), (July 2004) Vol. 150, No. Part 7, pp. 2143-2151.
print.
ISSN: 1350-0872 (ISSN print).
DT Article
LA English
ED Entered STN: 22 Sep 2004
Last Updated on STN: 22 Sep 2004
AB Recombinant mycobacteria expressing *Mycobacterium tuberculosis* extracellular proteins are leading candidates for new vaccines against tuberculosis and other mycobacterial diseases, and important tools both in anti mycobacterial drug development and basic research in mycobacterial pathogenesis. Recombinant mycobacteria that stably overexpress and secrete major extracellular proteins of *M. tuberculosis* in native form on plasmids pSMT3 and pNBV1 were previously constructed by the authors. To enhance the versatility of this plasmid-based approach for mycobacterial protein expression, the *Escherichia coli*/mycobacteria shuttle plasmid pGB9 was modified to accommodate mycobacterial genes expressed from their endogenous promoters.

Previous studies showed that the modified plasmid, designated pGB9.2, derived from the cryptic *Mycobacterium fortuitum* plasmid pMF1, was present at a low copy number in both *E. coli* and mycobacteria, and expression of recombinant *M. tuberculosis* proteins was found to be at levels paralleling its copy number, that is, approximating their endogenous levels. Plasmid pGB9.2 was compatible with the shuttle vectors pSMT3 and pNBV1 and in combination with them it simultaneously expressed the *M. tuberculosis* 30 kDa extracellular protein FbpB. Plasmid pGB9.2 was stably maintained in the absence of selective pressure in three mycobacterial species: *Mycobacterium bovis* BCG, *M. tuberculosis* and *M. smegmatis*. Plasmid pGB9.2 was found to be self-transmissible between both fast- and slow-growing mycobacteria, but not from mycobacteria to *E. coli* or between *E. coli* strains. The combination of two compatible plasmids in one BCG strain allows expression of recombinant mycobacterial proteins at different levels, a potentially important factor in optimizing vaccine potency.

L2 ANSWER 18 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 11
AN 2003:389809 BIOSIS
DN PREV200300389809
TI Abundant extracellular products and methods for their production and use.
AU Horwitz, Marcus A. [Inventor, Reprint Author]; Harth, Gunter [Inventor]
CS ASSIGNEE: The Regents of the University of California
PI US 6599510 20030729
SO Official Gazette of the United States Patent and Trademark Office Patents, (July 29 2003) Vol. 1272, No. 5. <http://www.uspto.gov/web/menu/patdata.htm>
1. e-file.
ISSN: 0098-1133 (ISSN print).
DT Patent
LA English
ED Entered STN: 20 Aug 2003
Last Updated on STN: 20 Aug 2003
AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irrespective of their absolute molecular immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their respective N-terminal amino acid, amino acid, or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compositions are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

L2 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 12
AN 2003:511847 CAPLUS
DN 139:67773
TI Major extracellular proteins of *Mycobacterium tuberculosis* for vaccination
IN Horwitz, Marcus A.; Harth, Gunter; Tullius, Michael V.
PA USA
SO U.S. Pat. Appl. Publ., 28 pp., Cont.-in-part of U.S. 6,471,967.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 3
PATENT NO. KIND DATE APPLICATION NO. DATE

PI	US 2003124135	A1	20030703	US 2002-261981	20020930
	US 6471967	B1	20021029	US 2000-550468	20000417
	ZA 2002009304	A	20040813	ZA 2002-9304	20021115
	US 2004009184	A1	20040115	US 2003-439611	20030515
	US 6924118	B2	20050802		
	CA 2500433	AA	20040415	CA 2003-2500433	20030930
	WO 2004031356	A2	20040415	WO 2003-US30994	20030930
	WO 2004031356	A3	20040826		
	W: AE, AG, AL, AM, AT, AU, AZ, CO, CR, CU, CZ, DE, DK, DM, GM, HR, HU, ID, IL, IN, IS, LS, LT, LU, LV, MA, MD, MG, PL, PT, RO, RU, SC, SD, SE, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW	BA, BB, BG, BR, BY, BZ, CA, CH, CN, DZ, EC, EE, ES, FI, GB, GD, GE, GH, JP, KE, KG, KP, KR, KZ, LC, LK, LR, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,			
	RW: GH, GM, KE, LS, MW, MZ, SD, KG, KZ, MD, RU, TJ, TM, AT, FI, FR, GB, GR, HU, IE, IT, BF, BJ, CF, CG, CI, CM, GA,	SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, BE, BG, CH, CY, CZ, DE, DK, EE, ES, LU, MC, NL, PT, RO, SE, SI, SK, TR, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2003272808	A1	20040423	AU 2003-272808	20030930
	EP 1556081	A2	20050727	EP 2003-755009	20030930
	R: AT, BE, CH, DE, DK, ES, FR, IE, SI, LT, LV, FI, RO, MK,	GB, GR, IT, LI, LU, NL, SE, MC, PT, CY, AL, TR, BG, CZ, EE, HU, SK			
	BR 2003014937	A	20050802	BR 2003-14937	20030930
	CN 1703238	A	20051130	CN 2003-825444	20030930
	JP 2006501304	T2	20060112	JP 2004-541966	20030930
	ZA 2005002596	A	20051012	ZA 2005-2596	20050331

PRAI US 2000-550468 A2 20000417
 US 2002-261981 A2 20020930
 US 2003-439611 A 20030515
 WO 2003-US30994 W 20030930

AB The authors disclose an immunogenic composition for inducting a protective immunity against *Mycobacterium tuberculosis* in an animal host. The immunogenic composition consists of attenuated *Mycobacterium BCG* that has been transformed to express the major extracellular protein of *M. tuberculosis*.

L2 ANSWER 20 OF 39 USPATFULL on STN

AN 2003:219294 USPATFULL

TI Abundant extracellular products and methods for their production and use
 IN Horwitz, Marcus A., Los Angeles, CA, UNITED STATES

PI US 2003152584 A1 20030814

AI US 2002-147255 A1 20020515 (10)

RLI Continuation of Ser. No. US 1999-226539, filed on 6 Jan 1999, ABANDONED
 Continuation of Ser. No. US 1998-157689, filed on 21 Sep 1998, PENDING
 Continuation-in-part of Ser. No. US 1996-652842, filed on 23 May 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-568357, filed on 6 Dec 1996, ABANDONED Continuation of Ser. No. US 1995-551149, filed on 31 Oct 1995, ABANDONED Continuation-in-part of Ser. No. US 1995-447398, filed on 23 May 1995, PENDING Continuation-in-part of Ser. No. US 1994-289667, filed on 12 Aug 1994, ABANDONED Continuation-in-part of Ser. No. US 1993-156358, filed on 23 Nov 1993, PENDING

DT Utility

FS APPLICATION

LREP ATTN: Louis C. Cullman, OPPENHEIMER WOLFF & DONNELLY LLP, Suite 700, 840 Newport Center Drive, Newport Beach, CA, 92660

CLMN Number of Claims: 46

ECL Exemplary Claim: 1

DRWN 12 Drawing Page(s)

LN.CNT 4269

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant

extracellular products of a target pathogen are selected irrespective of their absolute molecular immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their respective N-terminal amino acid or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compositions are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

L2 ANSWER 21 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 13

AN 2003:223629 BIOSIS

DN PREV200300223629

TI A new vaccine against tuberculosis affords greater survival after challenge than the current vaccine in the guinea pig model of pulmonary tuberculosis.

AU Horwitz, Marcus A. [Reprint Author]; Harth, Gunter

CS Dept. of Medicine, School of Medicine, University of California, Los Angeles, 10833 Le Conte Ave., CHS 37-121, Los Angeles, CA, 90095-1688, USA
MHorwitz@mednet.ucla.edu

SO Infection and Immunity, (April 2003) Vol. 71, No. 4, pp. 1672-1679. print.
ISSN: 0019-9567 (ISSN print).

DT Article

LA English

ED Entered STN: 7 May 2003
Last Updated on STN: 7 May 2003

AB Tuberculosis (TB) remains an enormous global health problem, and a new vaccine against TB more potent than the current inadequate vaccine, *Mycobacterium bovis* BCG, is urgently needed. We describe a recombinant BCG vaccine (rBCG30) expressing and secreting the 30-kDa major secretory protein of *Mycobacterium tuberculosis*, the primary causative agent of TB, that affords greater survival after challenge than parental BCG in the highly demanding guinea pig model of pulmonary TB. Animals immunized with rBCG30 and then challenged by aerosol with a highly virulent strain of *M. tuberculosis* survived significantly longer than animals immunized with conventional BCG. The parental and recombinant vaccine strains are comparably avirulent in guinea pigs, as they display a similar pattern of growth and clearance in the lung, spleen, and regional lymph nodes. The pMTB30 plasmid encoding the 30-kDa protein is neither self-transmissible nor mobilizable to other bacteria, including mycobacteria. The pMTB30 plasmid can be stably maintained in *Escherichia coli* but is expressed only in mycobacteria. The recombinant and parental strains are sensitive to the same antimycobacterial antibiotics. rBCG30, the first vaccine against TB more potent than nearly century-old BCG, is being readied for human clinical trials.

L2 ANSWER 22 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 14

AN 2003:14625 BIOSIS

DN PREV200300014625

TI Recombinant intracellular pathogen vaccines and methods for use.

AU Horwitz, Marcus A. [Inventor, Reprint Author]; Harth, Gunter
[Inventor]

CS Los Angeles, CA, USA
ASSIGNEE: The Regents of the University of California

PI US 6471967 20021029

SO Official Gazette of the United States Patent and Trademark Office Patents, (Oct 29 2002) Vol. 1263, No. 5. <http://www.uspto.gov/web/menu/patdata.html>

. e-file.

ISSN: 0098-1133 (ISSN print).

DT Patent

LA English

ED Entered STN: 25 Dec 2002

Last Updated on STN: 25 Dec 2002

AB Vaccines and immunotherapeutics for preventing intracellular pathogen diseases in mammals are provided that consist of recombinant attenuated intracellular pathogens that have been transformed to express recombinant immunogenic antigens of the same or other intracellular pathogens. Exemplary vaccines and immunotherapeutics include attenuated recombinant Mycobacteria expressing the major extracellular non-fusion proteins of Mycobacteria and/or other intracellular pathogens. These exemplary vaccines are shown to produce surprisingly potent protective immune responses in mammals that surpass those of any previously known anti-mycobacterium vaccine. More specifically, a recombinant BCG expressing the 30 kDa major extracellular non-fusion protein of Mycobacterium tuberculosis is provided. Additionally, methods for preventing and treating diseases caused by intracellular pathogens are provided. The methods of treating and preventing intracellular pathogen diseases utilize the described surprisingly efficacious vaccines and immunotherapeutics.

L2 ANSWER 23 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 15

AN 2002:794137 CAPLUS

DN 137:309483

TI Abundant extracellular bacterial products and methods for their production and use as vaccines, in particular for Mycobacterium tuberculosis

IN Horwitz, Marcus A.

PA The Regents of the University of California, USA

SO U.S. Pat. Appl. Publ., 45 pp., Cont.-in-part of U. S. Ser. No. 156,358.
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002150592	A1	20021017	US 2001-953457	20010914
	US 6146939	A	20001114	US 1998-156358	19980918
PRAI	US 1998-156358	A2	19980918		

AB Vaccines based on combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irresp. of their absolute mol. immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their resp. N-terminal amino acid sequences. As the vaccines may comprise different combinations of the extracellular products, a broad range effective immunotherapeutic compns. are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular Mycobacterium tuberculosis. Most expts. were done in the guinea pig models. In one embodiment cell-mediated immunity was tested in PPD-pos. and -neg. humans with one of the purified majorly abundant protein of 71 kDa. The proliferation of lymphocytes was studied in a standard assay. The mean peak stimulation index of PPD-pos. individuals was 2-fold higher to the 71 kDa protein and 3-fold higher to PPD than in PPD-negatives. Among the PPD-pos. individuals, there was a linear correlation between the peak stimulation indexes to the 71 kDa protein and to PPD, demonstrating the induction of a strong cell-mediated response to the most prominent extracellular products of M. tuberculosis in humans previously

exposed to it. The data correspond to the reactivity profile seen in guinea pigs and confirm the applicability of the guinea pig model to other mammals subject to infection.

L2 ANSWER 24 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 16
AN 2002:716867 CAPLUS
DN 137:246532
TI Vaccines comprising immunodominant epitope of pathogen extracellular products for immunotherapy of pathogenic infection
IN Horwitz, Marcus A.; Harth, Gunter
PA The Regents of the University of California, USA
SO U.S. Pat. Appl. Publ., 82 pp., Cont.-in-part of U.S. Ser. No. 157,689.
CODEN: USXXCO
DT Patent
LA English

FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002131975	A1	20020919	US 2001-953510	20010914
	US 6818223	B2	20041116		
	US 6752993	B1	20040622	US 1993-156358	19931123
	WO 9605223	A1	19960222	WO 1995-US2373	19950224
	W: MX				
	US 6761894	B1	20040713	US 1995-447398	19950523
	US 6599510	B1	20030729	US 1998-157689	19980921
	AU 9886140	A1	19990114	AU 1998-86140	19980922
	AU 728433	B2	20010111		
	JP 2005104983	A2	20050421	JP 2004-321293	20041104
PRAI	US 1993-156358	A2	19931123		
	US 1994-289667	B2	19940812		
	US 1995-447398	A2	19950523		
	US 1995-551149	B2	19951031		
	US 1996-652842	B1	19960523		
	US 1996-568357	B2	19961206		
	US 1998-157689	A2	19980921		
	AU 1995-10977	A3	19941118		
	JP 1995-515114	A3	19941118		

AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irresp. of their absolute mol. immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their resp. N-terminal amino acid or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compns. are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 25 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:780727 CAPLUS
DN 135:330480
TI Recombinant intracellular pathogen vaccines: application to mycobacterial disease
IN Horwitz, Marcus A.; Harth, Gunter
PA Regents of the University of California, USA
SO PCT Int. Appl., 40 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001078774	A2	20011025	WO 2001-US12380	20010416
	WO 2001078774	A3	20020328		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6471967	B1	20021029	US 2000-550468	20000417
	CA 2406225	AA	20011025	CA 2001-2406225	20010416
	EP 1274453	A2	20030115	EP 2001-927074	20010416
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004507453	T2	20040311	JP 2001-576073	20010416
	RU 2266132	C2	20051220	RU 2002-130716	20010416
ZA 2002009304	A	20040813	ZA 2002-9304	20021115	
PRAI	US 2000-550468	A	20000417		
	WO 2001-US12380	W	20010416		

AB The authors disclose vaccines and immunotherapeutics for preventing intracellular pathogen diseases in mammals. In general, the therapy consists of recombinant attenuated intracellular pathogens that have been transformed to express recombinant extracellular antigens of the same or other intracellular pathogens. In one example, recombinant *Mycobacteria bovis* was engineered to express the p30 major extracellular protein of *M. tuberculosis*. Using a guinea pig model of tuberculosis, vaccination with the p30 recombinant bacterium was shown to ameliorate pathol. on aerosol challenge and to reduce bacteremia in lungs and spleen.

L2 ANSWER 26 OF 39 USPATFULL on STN
AN 2000:50383 USPATFULL
TI Anti-microbial targeting for intracellular pathogens
IN Horwitz, Marcus A., Los Angeles, CA, United States
Clemens, Daniel L., Los Angeles, CA, United States
PA The Regents of the University of California, Oakland, CA, United States (U.S. corporation)
PI US 6054133 20000425
AI US 1997-890858 19970710 (8)
DT Utility
FS Granted
EXNAM Primary Examiner: Minnifield, Nita
LREP Oppenheimer Wolff & Donnelly LLP
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 5 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 638

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method and composition are provided for treating intracellular pathogens that reside in phagosomes. The compositions include antibiotics which are conjugated with transferrin or other ligands to form conjugates that target membrane-bound pathogens. The conjugates are selectively taken up by infected phagosomes. Conjugates are provided which utilize transferrin as the targeting ligand for treating mycobacterium which reside in membrane-bound phagosomes.

L2 ANSWER 27 OF 39 USPATFULL on STN

AN 2000:4822 USPATFULL
TI Externally targeted prophylactic and chemotherapeutic method and agents
IN Horwitz, Marcus A., Los Angeles, CA, United States
Harth, Gunter, Los Angeles, CA, United States
PA The Regents of the University of California, Oakland, CA, United States
(U.S. corporation)
PI US 6013660 20000111
AI US 1996-724814 19961002 (8)
DT Utility
FS Granted
EXNAM Primary Examiner: Degen, Nancy; Assistant Examiner: Wang, Andrew
LREP Oppenheimer, Wolff & Donnelly, L.L.P.
CLMN Number of Claims: 2
ECL Exemplary Claim: 1
DRWN 26 Drawing Figure(s); 24 Drawing Page(s)
LN.CNT 3390
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Methods and associated compositions are provided for the effective treatment of mammalian disease conditions associated with infection by pathogenic organisms through the identification of extracellular enzymes necessary for the growth or survival of the pathogenic organism and the subsequent interference with the functional activity of the identified extracellular enzyme to an extent sufficient to significantly inhibit the growth or survival of the pathogenic organism.

L2 ANSWER 28 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 17
AN 2001:66741 BIOSIS
DN PREV200100066741
TI Recombinant bacillus Calmette-Guerin (BCG) vaccines expressing the *Mycobacterium tuberculosis* 30-kDa major secretory protein induce greater protective immunity against tuberculosis than conventional BCG vaccines in a highly susceptible animal model.
AU Horwitz, Marcus A. [Reprint author]; Harth, Gunter; Dillon, Barbara Jane; Maslesa-Galic, Sasa
CS Department of Medicine, School of Medicine, University of California, 10833 Le Conte Avenue, Los Angeles, CA, 90095, USA
SO Proceedings of the National Academy of Sciences of the United States of America, (December 5, 2000) Vol. 97, No. 25, pp. 13853-13858. print.
CODEN: PNASA6. ISSN: 0027-8424.
DT Article
LA English
ED Entered STN: 31 Jan 2001
Last Updated on STN: 12 Feb 2002
AB Tuberculosis (TB) continues to ravage humanity, causing 2 million deaths per year. A vaccine against TB more potent than the current live vaccine, bacillus Calmette-Guerin (BCG), is desperately needed. Using two commercially available strains of BCG as host strains, BCG Connaught and Tice, we have constructed two recombinant BCG vaccines stably expressing and secreting the 30-kDa major secretory protein of *Mycobacterium tuberculosis* (*M. tb.*), the primary causative agent of TB. We have tested the efficacy of the two strains in the highly susceptible guinea pig model of pulmonary TB, a model noteworthy for its close resemblance to human TB. Animals immunized with the recombinant BCG vaccines and challenged by aerosol with a highly virulent strain of *M. tb.* had 0.5 logs fewer *M. tb.* bacilli in their lungs and 1 log fewer bacilli in their spleens on average than animals immunized with their parental conventional BCG vaccine counterparts. Statistically, these differences were highly significant. Paralleling these results, at necropsy, animals immunized with the recombinant BCG vaccines had fewer and smaller lesions in the lung, spleen, and liver and significantly less lung pathology than animals immunized with the parental BCG vaccines. The recombinant vaccines are the first vaccines against TB more potent

than the current commercially available BCG vaccines, which were developed nearly a century ago.

L2 ANSWER 29 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 18

AN 1999:262701 BIOSIS
DN PREV199900262701
TI T-Cell epitope mapping of the three most abundant extracellular proteins of *Mycobacterium tuberculosis* in outbred guinea pigs.
AU Lee, Bai-Yu; Horwitz, Marcus A. [Reprint author]
CS Department of Medicine, CHS 37-121, UCLA School of Medicine, 10833 Le Conte Ave., Los Angeles, CA, 90095-1688, USA
SO Infection and Immunity, (May, 1999) Vol. 67, No. 5, pp. 2665-2670. print.
CODEN: INFIBR. ISSN: 0019-9567.
DT Article
LA English
ED Entered STN: 15 Jul 1999
Last Updated on STN: 15 Jul 1999
AB The three most abundant extracellular proteins of *Mycobacterium tuberculosis*, the 30-, 32-, and 16-kDa major extracellular proteins, are particularly promising vaccine candidates. We have mapped T-cell epitopes of these three proteins in outbred guinea pigs by immunizing the animals with each protein and assaying splenic lymphocyte proliferation against a series of overlapping synthetic peptides covering the entire length of the mature proteins. The 30-kDa protein contained nine immunodominant epitopes, the 32-kDa protein contained two immunodominant epitopes, and the 16-kDa protein contained a highly immunodominant region at its N terminus. The immunodominant epitopes of the 30- and 32-kDa proteins in outbred guinea pigs were frequently identified in healthy purified-protein-derivative-positive or BCG-vaccinated individuals in previous studies. The immunodominant epitopes of these major extracellular proteins have potential utility in an epitope-based vaccine against tuberculosis.

L2 ANSWER 30 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 19

AN 1999:229029 BIOSIS
DN PREV199900229029
TI Characterization of exochelins of the *Mycobacterium bovis* type strain and BCG substrains.
AU Gobin, Jovana; Wong, Diane K.; Gibson, Bradford W.; Horwitz, Marcus A. [Reprint author]
CS Department of Medicine, CHS 37-121, UCLA School of Medicine, 10833 LeConte Ave., Los Angeles, CA, 90095, USA
SO Infection and Immunity, (April, 1999) Vol. 67, No. 4, pp. 2035-2039. print.
CODEN: INFIBR. ISSN: 0019-9567.
DT Article
LA English
ED Entered STN: 17 Jun 1999
Last Updated on STN: 17 Jun 1999
AB Pathogenic mycobacteria must acquire iron in the host in order to multiply and cause disease. To do so, they release abundant quantities of siderophores called exochelins, which have the capacity to scavenge iron from host iron-binding proteins and deliver it to the mycobacteria. In this study, we have characterized the exochelins of *Mycobacterium bovis*, the causative agent of bovine and occasionally of human tuberculosis, and the highly attenuated descendant of *M. bovis*, *bacillus Calmette-Guerin (BCG)*, widely used as a vaccine against human tuberculosis. The *M. bovis* type strain, five substrains of *M. bovis* BCG (Copenhagen, Glaxo, Japanese, Pasteur, and Tice), and two strains of virulent *Mycobacterium tuberculosis* all produce the same set of exochelins, although the relative amounts of individual

exochelins may differ. Among these mycobacteria, the total amount of exochelins produced is greatest in *M. tuberculosis*, intermediate in *M. bovis*, and smallest in *M. bovis* BCG.

L2 ANSWER 31 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1998:509121 CAPLUS
DN 129:160616
TI Abundant extracellular products and methods for their production and use
IN Horwitz, Marcus A.; Harth, Gunter; Lee, Bai-yu
PA Regents of the University of California, USA
SO PCT Int. Appl., 236 pp.
CODEN: PIXXD2
DT Patent
LA English
PATENT NO. KIND DATE APPLICATION NO. DATE
----- -----
PI WO 9831388 A1 19980723 WO 1998-US942 19980115
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK,
EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD,
SE, SG, SI, SK, TJ, TM, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG,
KZ, MD, RU, TJ, TM
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR,
IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG
PRAI US 1997-786533 19970121

AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irresp. of their absolute mol. immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their resp. N-terminal amino acid, amino acid, or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compns. are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 32 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 20
AN 1997:295273 BIOSIS
DN PREV199799594476
TI High-level heterologous expression and secretion in rapidly growing nonpathogenic mycobacteria of four major *Mycobacterium tuberculosis* extracellular proteins considered to be leading vaccine candidates and drug targets.
AU Harth, Gunter; Lee, Bai-Yu; Horwitz, Marcus A. [Reprint author]
CS Dep. Med., Sch. Med., Univ. California, Los Angeles, CA, USA
SO Infection and Immunity, (1997) Vol. 65, No. 6, pp. 2321-2328.
CODEN: INFIBR. ISSN: 0019-9567.
DT Article
LA English
ED Entered STN: 9 Jul 1997
Last Updated on STN: 9 Jul 1997
AB *Mycobacterium tuberculosis*, the primary etiologic agent of tuberculosis, is the world's leading cause of death from a single infectious agent, and new vaccines and drugs to combat it are urgently needed. The major extracellular proteins of *M. tuberculosis*, which are released into its phagosome in

macrophages, its host cells in humans, are leading candidates for a vaccine and prime targets for new drugs. However, the development of these biologicals has been hampered by the unavailability of large quantities of recombinant extracellular proteins identical to their native counterparts. In this report, we describe the heterologous expression and secretion of four major *M. tuberculosis* extracellular proteins (the 30-, 32-, 16-, and 23.5-kDa proteins sbd the first, second, third, and eighth most abundant, respectively) in rapidly growing, nonpathogenic mycobacterial species. Multiple attempts to obtain secretion of the proteins by using *Escherichia coli*- and *Bacillus subtilis*-based expression systems were unsuccessful, suggesting that high-level expression and secretion of these *Mycobacterium*-specific proteins require a mycobacterial host. All four recombinant proteins were stably expressed from the cloned genes' own promoters at yields that were 5- to 10-fold higher than those observed for the native proteins. The four proteins were purified to apparent homogeneity from culture filtrates by ammonium sulfate precipitation and ion-exchange and molecular sieve chromatography. The recombinant proteins were indistinguishable from their native counterparts by multiple criteria. First, N-terminal amino acid sequence determination demonstrated that processing of the leader peptides was highly accurate. Second, sodium dodecyl sulfate-polyacrylamide gel electrophoresis analysis revealed identical migration patterns. Third, mass spectrometry analysis confirmed that differences in mass were ltoreq 5 Da. A homolog of the *M. tuberculosis* 30-kDa protein was identified in *M. smegmatis* by means of DNA analyses and immunoscreening. This is the first time that secretion of recombinant *M. tuberculosis* extracellular proteins in their native form has been achieved. This study opens the door to mass production of correctly processed and secreted extracellular proteins of *M. tuberculosis* in a heterologous host and allows ready evaluation of their biologic and immunologic function.

L2 ANSWER 33 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1997:72269 CAPLUS
 DN 126:88291
 TI Abundant extracellular products of pathogens and methods for their production and use in vaccines
 IN Horwitz, Marcus A.; Harth, Guenter
 PA Regents of the University of California, USA; Horwitz, Marcus A.; Harth, Guenter
 SO PCT Int. Appl., 192 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9637219	A1	19961128	WO 1996-US7781	19960523
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
US	6761894	B1	20040713	US 1995-447398	19950523
AU	9660245	A1	19961211	AU 1996-60245	19960523
EP	828510	A1	19980318	EP 1996-917836	19960523
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP	11506320	T2	19990608	JP 1996-535943	19960523
BR	9608894	A	19991207	BR 1996-8894	19960523
NZ	309945	A	20010427	NZ 1996-309945	19960523
PRAI	US 1995-447398	A	19950523		
	US 1995-545926	A	19951020		
	US 1995-551149	A	19951031		

US 1996-568357	A	19961206
US 1993-156358	A2	19931123
US 1994-289667	A2	19940812
WO 1996-US7781	W	19960523

AB Vaccines based on one or more combinations of major extracellular products of pathogens and methods for their use and production are presented. The most prevalent or abundant extracellular products of a target pathogen are selected irresp. of their absolute mol. immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The major extracellular products may be characterized and distinguished by their resp. N-terminal amino acid, amino acid, or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compns. are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

L2 ANSWER 34 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1995:818742 CAPLUS
 DN 123:237783
 TI Production of abundant extracellular proteins from *Mycobacterium* and their use as vaccines
 IN Horwitz, Marcus A.
 PA Regents of the University of California, USA
 SO PCT Int. Appl., 123 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9514713	A2	19950601	WO 1994-US13145	19941118
	WO 9514713	A3	19951228		
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT, UA, UZ, VN				
	RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 6752993	B1	20040622	US 1993-156358	19931123
	CA 2177249	AA	19950601	CA 1994-2177249	19941118
	AU 9510977	A1	19950613	AU 1995-10977	19941118
	CN 1142231	A	19970205	CN 1994-194859	19941118
	CN 1103781	B	20030326		
	EP 771322	A1	19970507	EP 1995-901912	19941118
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 09505588	T2	19970603	JP 1995-515114	19941118
	BR 9408135	A	19970805	BR 1994-8135	19941118
	WO 9605223	A1	19960222	WO 1995-US2373	19950224
	W: MX				
	AU 9886140	A1	19990114	AU 1998-86140	19980922
	AU 728433	B2	20010111		
	JP 2005104983	A2	20050421	JP 2004-321293	20041104
PRAI	US 1993-156358	A	19931123		
	US 1994-289667	A	19940812		
	AU 1995-10977	A3	19941118		
	JP 1995-515114	A3	19941118		
	WO 1994-US13145	W	19941118		

AB Vaccines based on combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target

pathogen are selected irresp. of their absolute mol. immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products are characterized and distinguished by their resp. N-terminal amino acid sequences. As the vaccines may comprise different combinations of the extracellular products, a broad range effective immunotherapeutic compns. are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*. Thus, 14 individual proteinaceous major extracellular products of *M. tuberculosis* having mol. wts.

ranging from 110 kDa to 12 kDa were purified to a single band in PAGE, and their N-terminal amino acid sequences determined. Immunization and the stimulation of acquired immunity in a mammalian host system (e.g., experiment guinea pigs) is accomplished by a series of s.c. or intradermal injections of these purified extracellular products either individually or in various combinations.

L2 ANSWER 35 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
DUPLICATE 21
AN 1995:206584 BIOSIS
DN PREV199598220884
TI Protective immunity against tuberculosis induced by vaccination with major extracellular proteins of *Mycobacterium tuberculosis*.
AU Horwitz, Marcus A. [Reprint author]; Lee, Byong-Wha Esther; Dillon, Barbara Jane; Harth, Gunter
CS Dep. Medicine, Sch. Medicine, Univ. California, 10833 Le Conte Ave., Los Angeles, CA 90024, USA
SO Proceedings of the National Academy of Sciences of the United States of America, (1995) Vol. 92, No. 5, pp. 1530-1534.
CODEN: PNASA6. ISSN: 0027-8424.
DT Article
LA English
ED Entered STN: 23 May 1995
Last Updated on STN: 23 May 1995
AB Tuberculosis, caused by the intracellular pathogen *Mycobacterium tuberculosis*, is the world's leading cause of death in humans from a single infectious agent. A safe and effective vaccine against this scourge is urgently needed. This study demonstrates that immunization with the 30-kDa major secretory protein, alone or in combination with other abundant extracellular proteins of *M. tuberculosis*, induces strong cell-mediated immune responses and substantial protective immunity against aerosol challenge with virulent *M. tuberculosis* bacilli in the highly susceptible guinea pig model of pulmonary tuberculosis. Protection is manifested by decreased clinical illness including decreased weight loss, reduced mortality, and decreased growth of *M. tuberculosis* in the lungs and spleens of immunized animals compared with sham-immunized controls. This study demonstrates that purified major extracellular proteins of *M. tuberculosis* are candidate components of a subunit vaccine against tuberculosis and provides compelling support for the concept that extracellular proteins of intracellular pathogens are key immunoprotective molecules.
L2 ANSWER 36 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
AN 1995:147901 BIOSIS
DN PREV199598162201
TI Progress in the development of a subunit vaccine against tuberculosis and a new nonhuman primate model of pulmonary tuberculosis.
AU Horwitz, Marcus A. [Reprint author]; Lee, Byong-Wha E. [Reprint

author]; Dillon, Barbara Jane [Reprint author]; Harth, Gunter [Reprint author]; Tan, Esterlina V.; Dela Cruz, Eduardo C.; Abalos, Rodolfo M.; Nazareno, Jerome B.; Young, Leon J.; Villahermosa, Laarni G.; Walsh, Gerald P.

CS Dep. Med., Univ. Calif., Los Angeles, CA, USA

SO Journal of Cellular Biochemistry Supplement, (1995) Vol. 0, No. 19B, pp. 60.

Meeting Info.: Keystone Symposium on Molecular Mechanisms in Tuberculosis. Tamaron, Colorado, USA. February 19-25, 1995.

ISSN: 0733-1959.

DT Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 3 Apr 1995

Last Updated on STN: 3 Apr 1995

L2 ANSWER 37 OF 39 USPATFULL on STN

AN 92:33907 USPATFULL

TI Tuberculosis and legionellosis vaccines and methods for their production

IN Horwitz, Marcus A., Los Angeles, CA, United States

PA The Regents of the University of California, Berkeley, CA, United States (U.S. corporation)

PI US 5108745 19920428

AI US 1988-232664 19880816 (7)

DT Utility

FS Granted

EXNAM Primary Examiner: Brown, Johnnie R.; Assistant Examiner: Mohamed, Abdel A.

LREP Poms, Smith, Lande & Rose

CLMN Number of Claims: 17

ECL Exemplary Claim: 1

DRWN 2 Drawing Figure(s); 1 Drawing Page(s)

LN.CNT 715

AB Vaccines and methods for their use in producing effective immune responses in mammalian hosts subsequently exposed to infection by intracellular pathogens including Legionella pneumophila wherein extracellular products of the pathogens are used as vaccines. After selecting a target intracellular pathogen, extracellular products of the selected pathogen which stimulate strong lymphocyte proliferative responses in immune hosts are then utilized as vaccines to immunize subsequent mammalian hosts to the target intracellular pathogen.

L2 ANSWER 38 OF 39 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 22

AN 1993:51666 BIOSIS

DN PREV199395027968

TI Immunization with extracellular proteins of Mycobacterium tuberculosis induces cell-mediated immune responses and substantial protective immunity in a guinea pig model of pulmonary tuberculosis.

AU Pal, Primepares G.; Horwitz, Marcus A. [Reprint author]

CS Div. Infectious Diseases, Dep. Med., UCLA Sch. Med., Center Health Sci., Los Angeles, Calif. 90024, USA

SO Infection and Immunity, (1992) Vol. 60, No. 11, pp. 4781-4792.

CODEN: INFIBR. ISSN: 0019-9567.

DT Article

LA English

ED Entered STN: 13 Jan 1993

Last Updated on STN: 13 Jan 1993

AB We have studied the capacity of a selected fraction of Mycobacterium tuberculosis extracellular proteins (EP) released into broth culture by mid-logarithmic-growth-phase organisms to induce cell-mediated

immune responses and protective immunity in a guinea pig model of pulmonary tuberculosis. Guinea pigs infected with M. tuberculosis by aerosol but not uninfected control guinea pigs exhibit strong cell-mediated immune responses to EP, manifest by dose-dependent cutaneous delayed-type hypersensitivity and splenic lymphocyte proliferation. Guinea pigs immunized subcutaneously with EP but not sham-immunized control guinea pigs also develop strong cell-mediated immune responses to EP, manifest by dose-dependent cutaneous delayed-type hypersensitivity and splenic lymphocyte proliferation. EP is nonlethal and nontoxic to guinea pigs upon subcutaneous immunization. Guinea pigs immunized with EP and then challenged with aerosolized M. tuberculosis exhibit protective immunity. In five independent experiments, EP-immunized guinea pigs were consistently protected against clinical illness, including weight loss. Compared with EP-immunized guinea pigs, sham-immunized control guinea pigs lost 12.9 +/- 2.0% (mean +/- SE) of their total body weight. EP-immunized guinea pigs also had a 10-fold reduction in viable M. tuberculosis bacilli in their lungs and spleens ($P = 0.004$ and 0.001 , respectively) compared with sham-immunized control animals. In the two experiments in which some guinea pigs died after aerosol challenge, EP-immunized animals were protected from death. Whereas all 12 (100%) EP-immunized guinea pigs survived challenge with aerosolized M. tuberculosis, only 6 of 12 (50%) sham-immunized control guinea pigs survived challenge ($P = 0.007$, Fisher exact test). This study demonstrates that actively growing M. tuberculosis cells release immunoprotective molecules extracellularly, that a subunit vaccine against tuberculosis is feasible, and that extracellular molecules of M. tuberculosis are potential candidates for a subunit vaccine.

L2 ANSWER 39 OF 39 JAPIO (C) 2006 JPO on STN
AN 2005-104983 JAPIO
TI ABUNDANT EXTRACELLULAR PRODUCT, METHOD FOR PRODUCING THE SAME AND USE THEREOF
IN HORWITZ MARCUS A
PA UNIV CALIFORNIA
PI JP 2005104983 A 20050421 Heisei
AI JP 2004-321293 (JP2004321293 Heisei) 20041104
PRAI US 1993-156358 19931123
US 1994-289667 19940812
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2005
AB PROBLEM TO BE SOLVED: To provide a new vaccine for applying to stimulate effective immune response to infectious pathogens of *Mycobacterium* in mammalian hosts.
SOLUTION: The vaccines comprise at least one major extracellular product selected from a group consisting of 110kD protein, 80kD protein, 71kD protein, 58kD protein, 45kD protein, 32A kD protein, 32B kD protein, 30kD protein, 24kD protein, 23.5kD protein, 23kD protein, 16kD protein, 14kD protein and 12kD protein each of *M. tuberculosis*.
COPYRIGHT: (C) 2005, JPO&NCIPI

=> e harth gunter/au
E1 8 HARTH GEORGE H III/AU
E2 30 HARTH GUENTER/AU
E3 75 --> HARTH GUNTER/AU
E4 1 HARTH GUNTHER/AU
E5 34 HARTH H/AU
E6 31 HARTH HELMUT/AU
E7 2 HARTH HELMUTH/AU
E8 28 HARTH HUBERT/AU
E9 1 HARTH HUBERTH/AU
E10 7 HARTH III GEORGE H/AU
E11 3 HARTH III GEORGE HENRY/AU

E12 19 HARTH J/AU

=> s e2-e4 and tuberculosis and vaccin?
L3 50 ("HARTH GUENTER"/AU OR "HARTH GUNTER"/AU OR "HARTH GUNTHER"/AU)
AND TUBERCULOSIS AND VACCIN?

=> dup rem 13
PROCESSING COMPLETED FOR L3
L4 27 DUP REM L3 (23 DUPLICATES REMOVED)

=> d bib ab 1-
YOU HAVE REQUESTED DATA FROM 27 ANSWERS - CONTINUE? Y/ (N) :y

L4 ANSWER 1 OF 27 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
AN 2006:335545 BIOSIS
DN PREV200600340001
TI Abundant extracellular products and methods for their production and use.
AU Horwitz, Marcus A. [Inventor]; Harth, Gunter [Inventor]
CS Los Angeles, CA USA
ASSIGNEE: The Regents of The University of California
PI US 07002002 20060221
SO Official Gazette of the United States Patent and Trademark Office Patents,
(FEB 21 2006)
CODEN: OGUPE7. ISSN: 0098-1133.
DT Patent
LA English
ED Entered STN: 5 Jul 2006
Last Updated on STN: 5 Jul 2006
AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irrespective of their absolute molecular immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their respective N-terminal amino acid, amino acid, or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compositions are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular Mycobacterium tuberculosis.

L4 ANSWER 2 OF 27 USPATFULL on STN
AN 2006:215520 USPATFULL
TI Treatment of mycobacterium tuberculosis with antisense oligonucleotides
IN Horwitz, Marcus A., Los Angeles, CA, UNITED STATES
Harth, Gunter, Los Angeles, CA, UNITED STATES
Zamecnik, Paul C, Boston, MS, UNITED STATES
Tabatadze, David, Marlborough, MA, UNITED STATES
PI US 2006183676 A1 20060817
AI US 2002-478268 A1 20020520 (10)
WO 2002-US15963 20020520
20031118 PCT 371 date
PRAI US 2001-292096P 20010518 (60)
DT Utility
FS APPLICATION
LREP GATES & COOPER LLP, HOWARD HUGHES CENTER, 6701 CENTER DRIVE WEST, SUITE 1050, LOS ANGELES, CA, 90045, US
CLMN Number of Claims: 21

ECL Exemplary Claim: 1
DRWN 22 Drawing Page(s)

LN.CNT 3112

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods of inhibiting the proliferation of *Mycobacterium tuberculosis* comprising contacting *Mycobacterium tuberculosis* with an effective amount of a polynucleotide complementary to an mRNA transcript expressed by *Mycobacterium tuberculosis* are provided. Typical methods of the invention utilize phosphorothioate modified antisense polynucleotides (PS-ODNs) against the mRNA of *M. tuberculosis* genes such as glutamine synthetase, *aroA*, *ask*, *groES*, and the genes of the Antigen 85 complex. Optionally, the methods employ multiple antisense polynucleotides targeting different *Mycobacterium tuberculosis* transcripts. In preferred embodiments of the invention, the antisense polynucleotides are complementary to the 5' regions of the *Mycobacterium tuberculosis* transcripts.

L4 ANSWER 3 OF 27 USPATFULL on STN

AN 2006:214601 USPATENTL

Abundant extracellular products and methods for their production and use
Horwitz, Marcus A., Los Angeles, CA, UNITED STATES

HARTH, GUNTER, LOS ANGELES, CA. UNITED STATES

PI US 2006182754 A1 20060817

AI US 2006-334951 A1 20060118 (11)

RLI Continuation of Ser. No. US 2001-953413, filed on 14 Sep 2001, GRANTED, Pat. No. US 7002002 Continuation-in-part of Ser. No. US 1998-157689, filed on 21 Sep 1998, GRANTED, Pat. No. US 6599510 Continuation of Ser. No. US 1996-652842, filed on 23 May 1996, ABANDONED

DT Utility

FS APPLICATION

LREP PRESTON GATES & ELLIS LLP, 1900 MAIN STREET, SUITE 600, IRVINE, CA, 92614-7319, US

CLMN Number of Claims: 11

ECL Exemplary Claim: 1-11

DRWN 12 Drawing Page(s)

LN.CNT 3961

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irrespective of their absolute molecular immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their respective N-terminal amino acid, amino acid, or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compositions are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

L4 ANSWER 4 OF 27 USPATFULL on STN

ANSWER 1 OF 27 USPATELL

Anti-microbial agents derived from methionine sulfoximine analogues

IN Karen, Gantner, Los Angeles, CA, UNITED STATES
Griffith, Owen W. Milwaukee, WI, UNITED STATES

Griffith, Owen W, Milwaukee, WI,
Horwitz, Marcus A, Los Angeles

PT US 2006142251 A1 20060629

PI US 2008142231 AI 20080829
AT US 2003-534660 A1 20031117

20051128 PCT 371 date

PRAI US 2002-426502P 20021115 (60)
US 2002-430407P 20021202 (60)
DT Utility
FS APPLICATION
LREP PRESTON GATES & ELLIS LLP, 1900 MAIN STREET, SUITE 600, IRVINE, CA,
92614-7319, US
CLMN Number of Claims: 14
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 1134

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel antimicrobial compositions containing analogues of L-methionine-SR-sulfoximine (MSO) that are effective in treating intracellular pathogen infections are provided. Specifically, the compositions provided are MSO analogues having superior antimicrobial activity with significantly less toxicity as compared to MSO. These MSO analogues are suitable for use in treating infection in animals including primates, cows, pigs, horses, rabbits, mice, rats, cats, and dogs. Moreover, the MSO analogues are ideally suited for treating infections caused by the genus *Mycobacterium*. Additionally, methods for using the novel MSO analogues are also provided.

L4 ANSWER 5 OF 27 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
DUPLICATE 1
AN 2006:324634 BIOSIS
DN PREV200600325284
TI A novel live recombinant mycobacterial vaccine against bovine tuberculosis more potent than BCG.
AU Horwitz, Marcus A. [Reprint Author]; Harth, Guenter; Dillon, Barbara Jane; Maslesa-Galic, Sasa
CS Univ Calif Los Angeles, Sch Med, Dept Med, CHS 37-121,10833 Le Conte Ave, Los Angeles, CA 90095 USA
mhorwitz@mednet.ucla.edu
SO Vaccine, (MAR 6 2006) Vol. 24, No. 10, pp. 1593-1600.
CODEN: VACCDE. ISSN: 0264-410X.
DT Article
LA English
ED Entered STN: 21 Jun 2006
Last Updated on STN: 21 Jun 2006
AB

Mycobacterium bovis infection of cattle and other domesticated animals exacts a significant economic toll in both economically developing and industrialized countries. Vaccination of herds and/or wild animals that share their grazing land and serve as reservoirs of infection has been proposed as a strategy to combat bovine tuberculosis. However, the only currently available vaccine, *M. bovis* Bacille Calmette-Guerin (BCG), is not highly efficacious. Here we show that a live recombinant vaccine, rBCG30, which expresses large amounts of the *Mycobacterium tuberculosis* 30kDa major secretory protein, is more efficacious against bovine tuberculosis than BCG in the highly demanding guinea pig model of pulmonary tuberculosis. Compared with the parental wild-type BCG strain, rBCG30 administered intradermally induced significantly greater cell-mediated and humoral immune responses against the 30kDa protein, as determined by measuring cutaneous delayed-type hypersensitivity and antibody titers. As for potency, in three independent experiments, rBCG30 induced greater protective immunity than BCG against aerosol challenge with a highly virulent strain of *M. bovis*, reducing the burden of *M. bovis* by 0.4 +/- 0.2 log colony-forming units (CFU) in the lung ($P < 0.05$) and by 1.1 +/- 0.4 log CFU in the spleen ($P = 0.0005$) below the level in BCG-immunized animals. A recombinant BCG vaccine overexpressing the identical *M. bovis* 30kDa protein, rBCG30Mb, also induced greater cell-mediated and humoral immunity against the 30 kDa protein than BCG and greater protective immunity against *M. bovis* challenge; however, its potency was

not significantly different from rBCG30. As rBCG30 is significantly more potent than BCG against *M. bovis* challenge, it has potential as a vaccine against bovine tuberculosis in domesticated animals and in wild animal reservoirs. (c) 2005 Elsevier Ltd. All rights reserved.

L4 ANSWER 6 OF 27 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
DUPLICATE 2
AN 2006:249836 BIOSIS
DN PREV200600253683
TI Extraordinarily few organisms of a live recombinant BCG vaccine against tuberculosis induce maximal cell-mediated and protective immunity.
AU Horwitz, Marcus A. [Reprint Author]; Harth, Gunter; Dillon, Barbara Jane; Maslesa-Galic, Sasa
CS Univ Calif Los Angeles, Dept Med, Sch Med, CHS 37-121,10833 Le Conte Ave, Los Angeles, CA 90095 USA
mhorwitz@mednet.ucla.edu
SO Vaccine, (JAN 23 2006) Vol. 24, No. 4, pp. 443-451.
CODEN: VACCDE. ISSN: 0264-410X.
DT Article
LA English
ED Entered STN: 26 Apr 2006
Last Updated on STN: 26 Apr 2006
AB In previous studies, we have described a live recombinant BCG vaccine (rBCG30) overexpressing the 30 kDa major secretory protein of *Mycobacterium tuberculosis* that induces greater protective immunity against tuberculosis than the current vaccine in the demanding guinea pig model of pulmonary tuberculosis. In this study, we have investigated the impact of vaccine dose on the development of cell-mediated and protective immunity in the guinea pig model. We found that the protective efficacy against *M. tuberculosis* aerosol challenge of both BCG and rBCG30 was essentially dose-independent over a dose range of 10(1)-10(6) live organisms. As previously observed, rBCG30 was more potent, reducing colony-forming units (CFU) below the level observed in animals immunized with the parental BCG vaccine by 0.7 logs in the lungs and 1.0 logs in the spleen ($P < 0.0001$). To gain a better understanding of the influence of dose on bacterial clearance and immunity, we assessed animals immunized with 10(1), 10(3), or 10(6) CFU of rBCG30. The higher the dose, the higher the peak CFU level achieved in animal organs. However, whereas humoral immune responses to the 30kDa protein reflected the disparate CFU levels, cell-mediated immune responses did not; high and low doses of rBCG30 ultimately induced comparable peak lymphocyte proliferative responses and cutaneous delayed-type hypersensitivity responses to the 30kDa protein. We estimate that the amount of the 30 kDa protein required to induce a strong cell-mediated immune response when delivered via 10 rBCG30 organisms is about 9 orders of magnitude less than that required when the protein is delivered in a conventional protein/adjuvant vaccine. This study demonstrates that a very low inoculum of rBCG30 organisms has the capacity to induce strong protective immunity against tuberculosis and that rBCG30 is an extremely potent delivery system for mycobacterial antigens. (c) 2005 Elsevier Ltd. All rights reserved.

L4 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:369240 CAPLUS
DN 142:428756
TI Recombinant *Mycobacterium BCG* as vector for heterologous antigens of intracellular pathogens
IN Horwitz, Marcus A.; Harth, Gunter; Tullius, Michael V.
PA The Regents of the University of California, USA
SO PCT Int. Appl., 105 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005037222	A2	20050428	WO 2004-US34206	20041015
	WO 2005037222	A3	20050909		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1684798	A2	20060802	EP 2004-795381	20041015
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
PRAI	US 2003-512565P	P	20031016		
	WO 2004-US34206	W	20041015		
AB	The authors disclose recombinant attenuated <i>Mycobacterium BCG</i> that has been transformed to express recombinant immunogenic antigens from <i>M. tuberculosis</i> . Exemplary immunogens include, but are not limited to, the major extracellular non-fusion proteins of mycobacteria and/or other intracellular pathogens. Other embodiments are provided wherein the recombinant attenuated intracellular pathogen is auxotrophic.				
L4	ANSWER 8 OF 27 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 3				
AN	2005:436598 BIOSIS				
DN	PREV200510222088				
TI	Enhancing the protective efficacy of <i>Mycobacterium bovis BCG</i> vaccination against tuberculosis by boosting with the <i>Mycobacterium tuberculosis</i> major secretory protein.				
AU	Horwitz, Marcus A. [Reprint Author]; Harth, Guenter; Dillon, Barbara Jane; Maslesa-Galic, Sasa				
CS	Univ Calif Los Angeles, Sch Med, Dept Med, CHS 37-121,10833 Le Conte Ave, Los Angeles, CA 90095 USA mhorwitz@mednet.ucla.edu				
SO	Infection and Immunity, (AUG 2005) Vol. 73, No. 8, pp. 4676-4683. CODEN: INFIBR. ISSN: 0019-9567.				
DT	Article				
LA	English				
ED	Entered STN: 26 Oct 2005 Last Updated on STN: 26 Oct 2005				
AB	Tuberculosis continues to ravage humanity, killing 2 million people yearly. Most cases occur in areas of the world to which the disease is endemic, where almost everyone is vaccinated early in life with <i>Mycobacterium bovis BCG</i> , the currently available vaccine against tuberculosis. Thus, while more-potent vaccines are needed to replace BCG, new vaccines are also needed to boost the immune protection of the 4 billion people already vaccinated with BCG. Until now, no booster vaccine has been shown capable of significantly enhancing the level of protective immunity induced by BCG in the stringent guinea pig model of pulmonary tuberculosis, the "gold standard" for testing tuberculosis vaccines. In this paper, we describe a booster vaccine for BCG comprising the purified recombinant <i>Mycobacterium tuberculosis</i> 30-kDa protein, the major secreted protein of this pathogen. In the guinea pig model of pulmonary tuberculosis, boosting BCG-immunized animals once with the 30-kDa protein greatly increased cell-mediated and humoral immune				

responses to the protein in three consecutive experiments. Most importantly, boosting BCG-immunized animals once with the 30-kDa protein significantly enhanced protective immunity against aerosol challenge with highly virulent *M. tuberculosis*, as evidenced by a significantly reduced lung and spleen burden of *M. tuberculosis* compared with those for nonboosted BCG-immunized animals (mean additional reduction in CFU of 0.4 +/- 0.1 log in the lung [$P = 0.03$] and 0.6 +/- 0.1 log in the spleen [$P = 0.002$]). This study suggests that administering BCG-immunized people a booster vaccine comprising the 30-kDa protein may enhance their level of immunoprotection against tuberculosis.

L4 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 4
 AN 2004:1005855 CAPLUS
 DN 141:423309
 TI Combinations of abundant extracellular proteins from *Mycobacterium tuberculosis* and methods for their production and use as vaccines
 IN Horwitz, Marcus A.; Harth, Gunter; Lee, Bai-Yu
 PA USA
 SO U.S. Pat. Appl. Publ., 109 pp., Cont.-in-part of U.S. Ser. No. 786,533, abandoned.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004228873	A1	20041118	US 2003-695155	20031027
	US 6752993	B1	20040622	US 1993-156358	19931123
	WO 9605223	A1	19960222	WO 1995-US2373	19950224
	W: MX				
	US 6761894	B1	20040713	US 1995-447398	19950523
	AU 9886140	A1	19990114	AU 1998-86140	19980922
	AU 728433	B2	20010111		
	JP 2005104983	A2	20050421	JP 2004-321293	20041104
PRAI	US 1993-156358	A2	19931123		
	US 1994-289667	B2	19940812		
	US 1995-447398	A2	19950523		
	US 1995-545926	B2	19951020		
	US 1995-551149	B2	19951031		
	US 1996-652842	B2	19960523		
	US 1996-568357	B2	19961206		
	US 1997-786533	B2	19970121		
	AU 1995-10977	A3	19941118		
	JP 1995-515114	A3	19941118		
AB	The inventions involves vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irresp. of their absolute mol. immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their resp. N-terminal amino acid, amino acid, or DNA sequences. The vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids. The vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular <i>Mycobacterium tuberculosis</i> . The invention further claims use of immunodominant epitopes comprising peptide sequences from <i>M. tuberculosis</i> 32A kD protein subunits and an adjuvant selected from IL-12 and MF 59. In addition, the immunodominant epitopes may be used as immunodiagnostic agents for <i>Mycobacterium</i> infections in a mammalian host. Methods of producing abundant extracellular products selected from the group of <i>M. tuberculosis</i> 110 kD, 80 kD, 71 kD, 58 kD, 45 kD, 32A				

kD, 32B kD, 30 kD, 24 kD, 23.5 kD, 23 kD, 16 kD, 14 kD, and 12 kD proteins comprise transforming *M. smegmatis* or *M. vaccae* with nucleic acids encoding a protein and culturing the transformed cell at 28 °C. In the examples, guinea pigs immunized with the 30 kD extracellular protein and then challenged with aerosolized *M. tuberculosis* were protected against death. Guinea pigs immunized with the 71 kD extracellular protein maintained a consistent body weight over 13 wk after the challenge. The 30 and 71 kD proteins also showed a cell-mediated immune response as measured by skin testing. The 71 kD protein was effective at stimulating cell-mediated immunity in humans as measured by the proliferation of peripheral blood lymphocytes from PPD-pos. individuals.

L4 ANSWER 10 OF 27 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 5
 AN 2004:78460 CAPLUS
 DN 140:144684
 TI Abundant extracellular proteins of *Mycobacterium tuberculosis* for use in vaccines
 IN Horwitz, Marcus A.; Harth, Gunter
 PA The Regents of the University of California, USA
 SO U.S. Pat. Appl. Publ., 83 pp., Cont.-in-part of U.S. Ser. No. 157,689.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004018209	A1	20040129	US 2001-953413	20010914
	US 7002002	B2	20060221		
	US 6752993	B1	20040622	US 1993-156358	19931123
	WO 9605223	A1	19960222	WO 1995-US2373	19950224
	W: MX				
	US 6761894	B1	20040713	US 1995-447398	19950523
	US 6599510	B1	20030729	US 1998-157689	19980921
	AU 9886140	A1	19990114	AU 1998-86140	19980922
	AU 728433	B2	20010111		
	JP 2005104983	A2	20050421	JP 2004-321293	20041104
	US 2006182754	A1	20060817	US 2006-334951	20060118
PRAI	US 1993-156358	A2	19931123		
	US 1994-289667	B2	19940812		
	US 1995-447398	A2	19950523		
	US 1995-551149	B2	19951031		
	US 1996-652842	B1	19960523		
	US 1996-568357	B2	19961206		
	US 1998-157689	A2	19980921		
	AU 1995-10977	A3	19941118		
	JP 1995-515114	A3	19941118		
	US 2001-953413	A1	20010914		
AB	Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irresp. of their absolute mol. immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their resp. N-terminal amino acid, amino acid, or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compns. are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular <i>Mycobacterium tuberculosis</i> . The identification of 14 proteins of 12-110 kDa from culture supernatants of <i>M.</i>				

tuberculosis is demonstrated. Guinea pigs vaccinated with a 30 kDa protein showed a strong cell-mediated response to challenge with the protein in skin tests. Guinea pigs immunized with this protein showed a stronger immune response to challenge with aerosolized M. tuberculosis and a survival rate of 67% (4/6) compared to 17% (1/6) for sham vaccinated control animals. Use of combinations of proteins in vaccines is also demonstrated.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 27 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 6
AN 2004:39602 CAPLUS
DN 140:92569
TI Recombinant Mycobacteria expressing major extracellular non-fusion proteins of Mycobacteria or other intracellular pathogen for inducing immune responses
IN Horwitz, Marcus A.; Harth, Gunter; Tullius, Michael V.
PA The Regents of The University of California, USA
SO U.S. Pat. Appl. Publ., 34 pp., Cont.-in-part of U.S. Pat. Appl. 2003 124,135.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004009184	A1	20040115	US 2003-439611	20030515
	US 6924118	B2	20050802		
	US 6471967	B1	20021029	US 2000-550468	20000417
	US 2003124135	A1	20030703	US 2002-261981	20020930
	CA 2500433	AA	20040415	CA 2003-2500433	20030930
	WO 2004031356	A2	20040415	WO 2003-US30994	20030930
	WO 2004031356	A3	20040826		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003272808	A1	20040423	AU 2003-272808	20030930
	EP 1556081	A2	20050727	EP 2003-755009	20030930
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003014937	A	20050802	BR 2003-14937	20030930
	CN 1703238	A	20051130	CN 2003-825444	20030930
	JP 2006501304	T2	20060112	JP 2004-541966	20030930
PRAI	US 2000-550468	A2	20000417		
	US 2002-261981	A2	20020930		
	US 2003-439611	A	20030515		
	WO 2003-US30994	W	20030930		
AB	Immunogenic compns. and immunotherapeutics comprising recombinant attenuated intracellular pathogens that have been transformed to express recombinant immunogenic antigens of the same or other intracellular pathogens are provided. Exemplary immunogenic compns. include, but are not limited to attenuated recombinant Mycobacteria, e.g. BCG expressing the major extracellular non-fusion proteins of Mycobacteria and/or other intracellular pathogens. Other embodiments are provided wherein the recombinant attenuated intracellular pathogen is auxotrophic.				

RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 27 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
AN 2004:469232 BIOSIS
DN PREV200400474159
TI Abundant extracellular products and methods for their production and use.
AU Horwitz, Marcus A. [Inventor, Reprint Author]; Harth, Gunter [Inventor]
CS ASSIGNEE: The Regents of the University of California
PI US 6818223 20041116
SO Official Gazette of the United States Patent and Trademark Office Patents, (Nov 16 2004) Vol. 1288, No. 3. <http://www.uspto.gov/web/menu/patdata.html> e-file.
ISSN: 0098-1133 (ISSN print).
DT Patent
LA English
ED Entered STN: 9 Dec 2004
Last Updated on STN: 9 Dec 2004
AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irrespective of their absolute molecular immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their respective N-terminal amino acid or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compositions are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

L4 ANSWER 13 OF 27 USPATFULL on STN
AN 2004:203910 USPATFULL
TI Anti-microbial agents derived from methionine sulfoximine analogues
IN Horwitz, Marcus, Los Angeles, CA, UNITED STATES
Harth, Gunter, Los Angeles, CA, UNITED STATES
Griffith, Owen W., Milwaukee, WI, UNITED STATES
PI US 2004157802 A1 20040812
AI US 2003-715679 A1 20031117 (10)
PRAI US 2002-426502P 20021115 (60)
US 2002-430407P 20021202 (60)
DT Utility
FS APPLICATION
LREP STRADLING YOCO CARLSON & RAUTH, SUITE 1600, 660 NEWPORT CENTER DRIVE, P.O. BOX 7680, NEWPORT BEACH, CA, 92660
CLMN Number of Claims: 14
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 1166
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Novel antimicrobial compositions containing analogues of L-methionine-SR-sulfoximine (MSO) that are effective in treating intracellular pathogen infections are provided. Specifically, the compositions provided are MSO analogues having superior antimicrobial activity with significantly less toxicity as compared to MSO. These MSO analogues are suitable for use in treating infection in animals including primates, cows, pigs, horses, rabbits, mice, rats, cats, and dogs. Moreover, the MSO analogues are ideally suited for treating infections caused by the genus *Mycobacterium*. Additionally, methods for using the novel MSO analogues are also provided.

L4 ANSWER 14 OF 27 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 7

AN 2004:376404 BIOSIS

DN PREV200400379436

TI A two-plasmid system for stable, selective-pressure-independent expression of multiple extracellular proteins in mycobacteria.

AU Harth, Gunter; Maslesa-Galic, Sasa; Horwitz, Marcus A. [Reprint Author]

CS Dept MedDiv Infect Dis, Univ Calif Los Angeles, 37-121 CHS, 10833 Le Conte Ave, Los Angeles, CA, 90095, USA
mhorwitz@mednet.ucla.edu

SO Microbiology (Reading), (July 2004) Vol. 150, No. Part 7, pp. 2143-2151. print.
ISSN: 1350-0872 (ISSN print).

DT Article

LA English

ED Entered STN: 22 Sep 2004
Last Updated on STN: 22 Sep 2004

AB Recombinant mycobacteria expressing *Mycobacterium tuberculosis* extracellular proteins are leading candidates for new vaccines against tuberculosis and other mycobacterial diseases, and important tools both in anti mycobacterial drug development and basic research in mycobacterial pathogenesis. Recombinant mycobacteria that stably overexpress and secrete major extracellular proteins of *M. tuberculosis* in native form on plasmids pSMT3 and pNBV1 were previously constructed by the authors. To enhance the versatility of this plasmid-based approach for mycobacterial protein expression, the *Escherichia coli*/mycobacteria shuttle plasmid pGB9 was modified to accommodate mycobacterial genes expressed from their endogenous promoters. Previous studies showed that the modified plasmid, designated pGB9.2, derived from the cryptic *Mycobacterium fortuitum* plasmid pMF1, was present at a low copy number in both *E. coli* and mycobacteria, and expression of recombinant *M. tuberculosis* proteins was found to be at levels paralleling its copy number, that is, approximating their endogenous levels. Plasmid pGB9.2 was compatible with the shuttle vectors pSMT3 and pNBV1 and in combination with them it simultaneously expressed the *M. tuberculosis* 30 kDa extracellular protein FbpB. Plasmid pGB9.2 was stably maintained in the absence of selective pressure in three mycobacterial species: *Mycobacterium bovis* BCG, *M. tuberculosis* and *M. smegmatis*. Plasmid pGB9.2 was found to be self-transmissible between both fast- and slow-growing mycobacteria, but not from mycobacteria to *E. coli* or between *E. coli* strains. The combination of two compatible plasmids in one BCG strain allows expression of recombinant mycobacterial proteins at different levels, a potentially important factor in optimizing vaccine potency.

L4 ANSWER 15 OF 27 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 8

AN 2003:389809 BIOSIS

DN PREV200300389809

TI Abundant extracellular products and methods for their production and use.

AU Horwitz, Marcus A. [Inventor, Reprint Author]; Harth, Gunter [Inventor]

CS ASSIGNEE: The Regents of the University of California

PI US 6599510 20030729

SO Official Gazette of the United States Patent and Trademark Office Patents, (July 29 2003) Vol. 1272, No. 5. <http://www.uspto.gov/web/menu/patdata.htm> 1. e-file.

ISSN: 0098-1133 (ISSN print).

DT Patent

LA English

ED Entered STN: 20 Aug 2003
Last Updated on STN: 20 Aug 2003

AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irrespective of their absolute molecular immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their respective N-terminal amino acid, amino acid, or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compositions are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

L4 ANSWER 16 OF 27 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 9
 AN 2003:511847 CAPLUS
 DN 139:67773
 TI Major extracellular proteins of *Mycobacterium tuberculosis* for vaccination
 IN Horwitz, Marcus A.; Harth, Gunter; Tullius, Michael V.
 PA USA
 SO U.S. Pat. Appl. Publ., 28 pp., Cont.-in-part of U.S. 6,471,967.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003124135	A1	20030703	US 2002-261981	20020930
	US 6471967	B1	20021029	US 2000-550468	20000417
	ZA 2002009304	A	20040813	ZA 2002-9304	20021115
	US 2004009184	A1	20040115	US 2003-439611	20030515
	US 6924118	B2	20050802		
	CA 2500433	AA	20040415	CA 2003-2500433	20030930
	WO 2004031356	A2	20040415	WO 2003-US30994	20030930
	WO 2004031356	A3	20040826		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003272808	A1	20040423	AU 2003-272808	20030930
	EP 1556081	A2	20050727	EP 2003-755009	20030930
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003014937	A	20050802	BR 2003-14937	20030930
	CN 1703238	A	20051130	CN 2003-825444	20030930
	JP 2006501304	T2	20060112	JP 2004-541966	20030930
	ZA 2005002596	A	20051012	ZA 2005-2596	20050331
PRAI	US 2000-550468	A2	20000417		
	US 2002-261981	A2	20020930		
	US 2003-439611	A	20030515		
	WO 2003-US30994	W	20030930		

AB The authors disclose an immunogenic composition for inducting a protective immunity against *Mycobacterium tuberculosis* in an animal host. The immunogenic composition consists of attenuated *Mycobacterium BCG* that has

been transformed to express the major extracellular protein of *M. tuberculosis*.

L4 ANSWER 17 OF 27 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 10

AN 2003:223629 BIOSIS
DN PREV200300223629

TI A new vaccine against tuberculosis affords greater survival after challenge than the current vaccine in the guinea pig model of pulmonary tuberculosis.

AU Horwitz, Marcus A. [Reprint Author]; Harth, Gunter
CS Dept. of Medicine, School of Medicine, University of California, Los Angeles, 10833 Le Conte Ave., CHS 37-121, Los Angeles, CA, 90095-1688, USA MHorwitz@mednet.ucla.edu

SO Infection and Immunity, (April 2003) Vol. 71, No. 4, pp. 1672-1679. print. ISSN: 0019-9567 (ISSN print).

DT Article
LA English
ED Entered STN: 7 May 2003
Last Updated on STN: 7 May 2003

AB Tuberculosis (TB) remains an enormous global health problem, and a new vaccine against TB more potent than the current inadequate vaccine, *Mycobacterium bovis* BCG, is urgently needed. We describe a recombinant BCG vaccine (rBCG30) expressing and secreting the 30-kDa major secretory protein of *Mycobacterium tuberculosis*, the primary causative agent of TB, that affords greater survival after challenge than parental BCG in the highly demanding guinea pig model of pulmonary TB. Animals immunized with rBCG30 and then challenged by aerosol with a highly virulent strain of *M. tuberculosis* survived significantly longer than animals immunized with conventional BCG. The parental and recombinant vaccine strains are comparably avirulent in guinea pigs, as they display a similar pattern of growth and clearance in the lung, spleen, and regional lymph nodes. The pMTB30 plasmid encoding the 30-kDa protein is neither self-transmissible nor mobilizable to other bacteria, including mycobacteria. The pMTB30 plasmid can be stably maintained in *Escherichia coli* but is expressed only in mycobacteria. The recombinant and parental strains are sensitive to the same antimycobacterial antibiotics. rBCG30, the first vaccine against TB more potent than nearly century-old BCG, is being readied for human clinical trials.

L4 ANSWER 18 OF 27 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 11

AN 2003:14625 BIOSIS
DN PREV200300014625

TI Recombinant intracellular pathogen vaccines and methods for use.

AU Horwitz, Marcus A. [Inventor, Reprint Author]; Harth, Gunter [Inventor]
CS Los Angeles, CA, USA
ASSIGNEE: The Regents of the University of California
PI US 6471967 20021029
SO Official Gazette of the United States Patent and Trademark Office Patents, (Oct 29 2002) Vol. 1263, No. 5. <http://www.uspto.gov/web/menu/patdata.html> . e-file.
ISSN: 0098-1133 (ISSN print).

DT Patent
LA English
ED Entered STN: 25 Dec 2002
Last Updated on STN: 25 Dec 2002

AB Vaccines and immunotherapeutics for preventing intracellular pathogen diseases in mammals are provided that consist of recombinant attenuated intracellular pathogens that have been transformed to express recombinant immunogenic antigens of the same or other intracellular pathogens. Exemplary vaccines and immunotherapeutics include

attenuated recombinant Mycobacteria expressing the major extracellular non-fusion proteins of Mycobacteria and/or other intracellular pathogens. These exemplary vaccines are shown to produce surprisingly potent protective immune responses in mammals that surpass those of any previously known anti-mycobacterium vaccine. More specifically, a recombinant BCG expressing the 30 kDa major extracellular non-fusion protein of *Mycobacterium tuberculosis* is provided. Additionally, methods for preventing and treating diseases caused by intracellular pathogens are provided. The methods of treating and preventing intracellular pathogen diseases utilize the described surprisingly efficacious vaccines and immunotherapeutics.

L4 ANSWER 19 OF 27 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 12
 AN 2002:716867 CAPLUS
 DN 137:246532
 TI Vaccines comprising immunodominant epitope of pathogen extracellular products for immunotherapy of pathogenic infection
 IN Horwitz, Marcus A.; Harth, Gunter
 PA The Regents of the University of California, USA
 SO U.S. Pat. Appl. Publ., 82 pp., Cont.-in-part of U.S. Ser. No. 157,689.
 CODEN: USXXCO

DT Patent
 LA English

FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002131975	A1	20020919	US 2001-953510	20010914
	US 6818223	B2	20041116		
	US 6752993	B1	20040622	US 1993-156358	19931123
	WO 9605223	A1	19960222	WO 1995-US2373	19950224
	W: MX				
	US 6761894	B1	20040713	US 1995-447398	19950523
	US 6599510	B1	20030729	US 1998-157689	19980921
	AU 9886140	A1	19990114	AU 1998-86140	19980922
	AU 728433	B2	20010111		
	JP 2005104983	A2	20050421	JP 2004-321293	20041104
PRAI	US 1993-156358	A2	19931123		
	US 1994-289667	B2	19940812		
	US 1995-447398	A2	19950523		
	US 1995-551149	B2	19951031		
	US 1996-652842	B1	19960523		
	US 1996-568357	B2	19961206		
	US 1998-157689	A2	19980921		
	AU 1995-10977	A3	19941118		
	JP 1995-515114	A3	19941118		

AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irresp. of their absolute mol. immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their resp. N-terminal amino acid or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compns. are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 20 OF 27 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:780727 CAPLUS
DN 135:330480
TI Recombinant intracellular pathogen vaccines: application to mycobacterial disease
IN Horwitz, Marcus A.; Harth, Gunter
PA Regents of the University of California, USA
SO PCT Int. Appl., 40 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001078774	A2	20011025	WO 2001-US12380	20010416
	WO 2001078774	A3	20020328		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6471967	B1	20021029	US 2000-550468	20000417
	CA 2406225	AA	20011025	CA 2001-2406225	20010416
	EP 1274453	A2	20030115	EP 2001-927074	20010416
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004507453	T2	20040311	JP 2001-576073	20010416
	RU 2266132	C2	20051220	RU 2002-130716	20010416
	ZA 2002009304	A	20040813	ZA 2002-9304	20021115
PRAI	US 2000-550468	A	20000417		
	WO 2001-US12380	W	20010416		

AB The authors disclose vaccines and immunotherapeutics for preventing intracellular pathogen diseases in mammals. In general, the therapy consists of recombinant attenuated intracellular pathogens that have been transformed to express recombinant extracellular antigens of the same or other intracellular pathogens. In one example, recombinant *Mycobacteria bovis* was engineered to express the p30 major extracellular protein of *M. tuberculosis*. Using a guinea pig model of tuberculosis, vaccination with the p30 recombinant bacterium was shown to ameliorate pathol. on aerosol challenge and to reduce bacteremia in lungs and spleen.

L4 ANSWER 21 OF 27 USPATFULL on STN

AN 2000:4822 USPATFULL

TI Externally targeted prophylactic and chemotherapeutic method and agents
IN Horwitz, Marcus A., Los Angeles, CA, United States
Harth, Gunter, Los Angeles, CA, United States

PA The Regents of the University of California, Oakland, CA, United States
(U.S. corporation)

PI US 6013660 20000111

AI US 1996-724814 19961002 (8)

DT Utility

FS Granted

EXNAM Primary Examiner: Degen, Nancy; Assistant Examiner: Wang, Andrew

LREP Oppenheimer, Wolff & Donnelly, L.L.P.

CLMN Number of Claims: 2

ECL Exemplary Claim: 1

DRWN 26 Drawing Figure(s); 24 Drawing Page(s)

LN.CNT 3390

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods and associated compositions are provided for the effective

treatment of mammalian disease conditions associated with infection by pathogenic organisms through the identification of extracellular enzymes necessary for the growth or survival of the pathogenic organism and the subsequent interference with the functional activity of the identified extracellular enzyme to an extent sufficient to significantly inhibit the growth or survival of the pathogenic organism.

L4 ANSWER 22 OF 27 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
DUPLICATE 13

AN 2001:66741 BIOSIS

DN PREV200100066741

TI Recombinant bacillus Calmette-Guerin (BCG) vaccines expressing the *Mycobacterium tuberculosis* 30-kDa major secretory protein induce greater protective immunity against tuberculosis than conventional BCG vaccines in a highly susceptible animal model.

AU Horwitz, Marcus A. [Reprint author]; Harth, Gunter; Dillon, Barbara Jane; Maslesa-Galic, Sasa

CS Department of Medicine, School of Medicine, University of California, 10833 Le Conte Avenue, Los Angeles, CA, 90095, USA

SO Proceedings of the National Academy of Sciences of the United States of America, (December 5, 2000) Vol. 97, No. 25, pp. 13853-13858. print.
CODEN: PNASA6. ISSN: 0027-8424.

DT Article

LA English

ED Entered STN: 31 Jan 2001
Last Updated on STN: 12 Feb 2002

AB Tuberculosis (TB) continues to ravage humanity, causing 2 million deaths per year. A vaccine against TB more potent than the current live vaccine, bacillus Calmette-Guerin (BCG), is desperately needed. Using two commercially available strains of BCG as host strains, BCG Connaught and Tice, we have constructed two recombinant BCG vaccines stably expressing and secreting the 30-kDa major secretory protein of *Mycobacterium tuberculosis* (M. tb.), the primary causative agent of TB. We have tested the efficacy of the two strains in the highly susceptible guinea pig model of pulmonary TB, a model noteworthy for its close resemblance to human TB. Animals immunized with the recombinant BCG vaccines and challenged by aerosol with a highly virulent strain of M. tb. had 0.5 logs fewer M. tb. bacilli in their lungs and 1 log fewer bacilli in their spleens on average than animals immunized with their parental conventional BCG vaccine counterparts. Statistically, these differences were highly significant. Paralleling these results, at necropsy, animals immunized with the recombinant BCG vaccines had fewer and smaller lesions in the lung, spleen, and liver and significantly less lung pathology than animals immunized with the parental BCG vaccines. The recombinant vaccines are the first vaccines against TB more potent than the current commercially available BCG vaccines, which were developed nearly a century ago.

L4 ANSWER 23 OF 27 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1998:509121 CAPLUS
DN 129:160616

TI Abundant extracellular products and methods for their production and use

IN Horwitz, Marcus A.; Harth, Gunter; Lee, Bai-yu

PA Regents of the University of California, USA

SO PCT Int. Appl., 236 pp.
CODEN: PIXXD2

DT Patent

LA English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI WO 9831388 A1	19980723	WO 1998-US942	19980115	
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				

LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD,
SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG,
KZ, MD, RU, TJ, TM

RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR,
IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG

PRAI US 1997-786533 19970121

AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irresp. of their absolute mol. immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their resp. N-terminal amino acid, amino acid, or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compns. are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 24 OF 27 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 14

AN 1997:295273 BIOSIS

DN PREV199799594476

TI High-level heterologous expression and secretion in rapidly growing nonpathogenic mycobacteria of four major *Mycobacterium tuberculosis* extracellular proteins considered to be leading vaccine candidates and drug targets.

AU Harth, Gunter; Lee, Bai-Yu; Horwitz, Marcus A. [Reprint author]
CS Dep. Med., Sch. Med., Univ. California, Los Angeles, CA, USA
SO Infection and Immunity, (1997) Vol. 65, No. 6, pp. 2321-2328.
CODEN: INFIBR. ISSN: 0019-9567.

DT Article

LA English

ED Entered STN: 9 Jul 1997

Last Updated on STN: 9 Jul 1997

AB *Mycobacterium tuberculosis*, the primary etiologic agent of tuberculosis, is the world's leading cause of death from a single infectious agent, and new vaccines and drugs to combat it are urgently needed. The major extracellular proteins of *M. tuberculosis*, which are released into its phagosome in macrophages, its host cells in humans, are leading candidates for a vaccine and prime targets for new drugs. However, the development of these biologicals has been hampered by the unavailability of large quantities of recombinant extracellular proteins identical to their native counterparts. In this report, we describe the heterologous expression and secretion of four major *M. tuberculosis* extracellular proteins (the 30-, 32, 16-, and 23.5-kDa proteins sbd the first, second, third, and eighth most abundant, respectively) in rapidly growing, nonpathogenic mycobacterial species. Multiple attempts to obtain secretion of the proteins by using *Escherichia coli*- and *Bacillus subtilis*-based expression systems were unsuccessful, suggesting that high-level expression and secretion of these *Mycobacterium*-specific proteins require a mycobacterial host. All four recombinant proteins were stably expressed from the cloned genes' own promoters at yields that were 5- to 10-fold higher than those observed for the native proteins. The four proteins were purified to apparent homogeneity from culture filtrates by ammonium sulfate precipitation and ion-exchange and molecular sieve chromatography. The recombinant proteins were indistinguishable from their native counterparts by multiple criteria. First, N-terminal amino acid sequence determination

demonstrated that processing of the leader peptides was highly accurate. Second, sodium dodecyl sulfate-polyacrylamide gel electrophoresis analysis revealed identical migration patterns. Third, mass spectrometry analysis confirmed that differences in mass were ≤ 5 Da. A homolog of the *M. tuberculosis* 30-kDa protein was identified in *M. smegmatis* by means of DNA analyses and immunoscreening. This is the first time that secretion of recombinant *M. tuberculosis* extracellular proteins in their native form has been achieved. This study opens the door to mass production of correctly processed and secreted extracellular proteins of *M. tuberculosis* in a heterologous host and allows ready evaluation of their biologic and immunologic function.

L4 ANSWER 25 OF 27 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1997:72269 CAPLUS
 DN 126:88291
 TI Abundant extracellular products of pathogens and methods for their production and use in vaccines
 IN Horwitz, Marcus A.; Harth, Guenter
 PA Regents of the University of California, USA; Horwitz, Marcus A.; Harth, Guenter
 SO PCT Int. Appl., 192 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9637219	A1	19961128	WO 1996-US7781	19960523
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
	US 6761894	B1	20040713	US 1995-447398	19950523
	AU 9660245	A1	19961211	AU 1996-60245	19960523
	EP 828510	A1	19980318	EP 1996-917836	19960523
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 11506320	T2	19990608	JP 1996-535943	19960523
	BR 9608894	A	19991207	BR 1996-8894	19960523
	NZ 309945	A	20010427	NZ 1996-309945	19960523
PRAI	US 1995-447398	A	19950523		
	US 1995-545926	A	19951020		
	US 1995-551149	A	19951031		
	US 1996-568357	A	19961206		
	US 1993-156358	A2	19931123		
	US 1994-289667	A2	19940812		
	WO 1996-US7781	W	19960523		
AB	Vaccines based on one or more combinations of major extracellular products of pathogens and methods for their use and production are presented. The most prevalent or abundant extracellular products of a target pathogen are selected irresp. of their absolute mol. immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The major extracellular products may be characterized and distinguished by their resp. N-terminal amino acid, amino acid, or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compns. are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular <i>Mycobacterium tuberculosis</i> .				

L4 ANSWER 26 OF 27 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
DUPLICATE 15

AN 1995:206584 BIOSIS
DN PREV199598220884

TI Protective immunity against tuberculosis induced by
vaccination with major extracellular proteins of *Mycobacterium*
tuberculosis.

AU Horwitz, Marcus A. [Reprint author]; Lee, Byong-Wha Esther; Dillon,
Barbara Jane; Harth, Gunter

CS Dep. Medicine, Sch. Medicine, Univ. California, 10833 Le Conte Ave., Los
Angeles, CA 90024, USA

SO Proceedings of the National Academy of Sciences of the United States of
America, (1995) Vol. 92, No. 5, pp. 1530-1534.
CODEN: PNASA6. ISSN: 0027-8424.

DT Article
LA English
ED Entered STN: 23 May 1995
Last Updated on STN: 23 May 1995

AB Tuberculosis, caused by the intracellular pathogen *Mycobacterium*
tuberculosis, is the world's leading cause of death in humans from
a single infectious agent. A safe and effective vaccine against
this scourge is urgently needed. This study demonstrates that
immunization with the 30-kDa major secretory protein, alone or in
combination with other abundant extracellular proteins of *M.*
tuberculosis, induces strong cell-mediated immune responses and
substantial protective immunity against aerosol challenge with virulent *M.*
tuberculosis bacilli in the highly susceptible guinea pig model of
pulmonary tuberculosis. Protection is manifested by decreased
clinical illness including decreased weight loss, reduced mortality, and
decreased growth of *M. tuberculosis* in the lungs and spleens of
immunized animals compared with sham-immunized controls. This study
demonstrates that purified major extracellular proteins of *M.*
tuberculosis are candidate components of a subunit vaccine
against tuberculosis and provides compelling support for the
concept that extracellular proteins of intracellular pathogens are key
immunoprotective molecules.

L4 ANSWER 27 OF 27 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN

AN 1995:147901 BIOSIS
DN PREV199598162201

TI Progress in the development of a subunit vaccine against
tuberculosis and a new nonhuman primate model of pulmonary
tuberculosis.

AU Horwitz, Marcus A. [Reprint author]; Lee, Byong-Wha E. [Reprint author];
Dillon, Barbara Jane [Reprint author]; Harth, Gunter [Reprint
author]; Tan, Esterlina V.; Dela Cruz, Eduardo C.; Abalos, Rodolfo M.;
Nazareno, Jerome B.; Young, Leon J.; Villahermosa, Laarni G.; Walsh,
Gerald P.

CS Dep. Med., Univ. Calif., Los Angeles, CA, USA

SO Journal of Cellular Biochemistry Supplement, (1995) Vol. 0, No. 19B, pp.
60.
Meeting Info.: Keystone Symposium on Molecular Mechanisms in Tuberculosis.
Tamarron, Colorado, USA. February 19-25, 1995.
ISSN: 0733-1959.

DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 3 Apr 1995
Last Updated on STN: 3 Apr 1995

=> e lee bai yu/au

E1 2 LEE BAI LIN/AU
 E2 1 LEE BAI O/AU
 E3 38 --> LEE BAI YU/AU
 E4 1 LEE BAIK HOON/AU
 E5 1 LEE BAIK HYEON/AU
 E6 1 LEE BAIK HYUN/AU
 E7 25 LEE BAIK WOO/AU
 E8 3 LEE BAILEY/AU
 E9 3 LEE BAILEY C/AU
 E10 9 LEE BAILEY L/AU
 E11 1 LEE BAILEY P/AU
 E12 1 LEE BAILEY W/AU

=> s e3 and tuberculosis and vaccin?

L5 7 "LEE BAI YU"/AU AND TUBERCULOSIS AND VACCIN?

=> dup rem 15

PROCESSING COMPLETED FOR L5

L6 4 DUP REM L5 (3 DUPLICATES REMOVED)

=> d bib ab 1-

YOU HAVE REQUESTED DATA FROM 4 ANSWERS - CONTINUE? Y/(N):y

L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1
 AN 2004:1005855 CAPLUS
 DN 141:423309
 TI Combinations of abundant extracellular proteins from *Mycobacterium*
 tuberculosis and methods for their production and use as
 vaccines
 IN Horwitz, Marcus A.; Harth, Gunter; Lee, Bai-Yu
 PA USA
 SO U.S. Pat. Appl. Publ., 109 pp., Cont.-in-part of U.S. Ser. No. 786,533,
 abandoned.
 CODEN: USXXCO

DT Patent

LA English

FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004228873	A1	20041118	US 2003-695155	20031027
	US 6752993	B1	20040622	US 1993-156358	19931123
	WO 9605223	A1	19960222	WO 1995-US2373	19950224
	W: MX				
	US 6761894	B1	20040713	US 1995-447398	19950523
	AU 9886140	A1	19990114	AU 1998-86140	19980922
	AU 728433	B2	20010111		
	JP 2005104983	A2	20050421	JP 2004-321293	20041104
PRAI	US 1993-156358	A2	19931123		
	US 1994-289667	B2	19940812		
	US 1995-447398	A2	19950523		
	US 1995-545926	B2	19951020		
	US 1995-551149	B2	19951031		
	US 1996-652842	B2	19960523		
	US 1996-568357	B2	19961206		
	US 1997-786533	B2	19970121		
	AU 1995-10977	A3	19941118		
	JP 1995-515114	A3	19941118		

AB The inventions involves vaccines based on one or more
 combinations of majorly abundant extracellular products of pathogens and
 methods for their use and production. The most prevalent or majorly abundant
 extracellular products of a target pathogen are selected irresp. of their
 absolute mol. immunogenicity and used as vaccines to stimulate a
 protective immune response in mammalian hosts against subsequent infection

by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their resp. N-terminal amino acid, amino acid, or DNA sequences. The vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids. The vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*. The invention further claims use of immunodominant epitopes comprising peptide sequences from *M. tuberculosis* 32A kD protein subunits and an adjuvant selected from IL-12 and MF 59. In addition, the immunodominant epitopes may be used as immunodiagnostic agents for *Mycobacterium* infections in a mammalian host. Methods of producing abundant extracellular products selected from the group of *M. tuberculosis* 110 kD, 80 kD, 71 kD, 58 kD, 45 kD, 32A kD, 32B kD, 30 kD, 24 kD, 23.5 kD, 23 kD, 16 kD, 14 kD, and 12 kD proteins comprise transforming *M. smegmatis* or *M. vaccae* with nucleic acids encoding a protein and culturing the transformed cell at 28 °C. In the examples, guinea pigs immunized with the 30 kD extracellular protein and then challenged with aerosolized *M. tuberculosis* were protected against death. Guinea pigs immunized with the 71 kD extracellular protein maintained a consistent body weight over 13 wk after the challenge. The 30 and 71 kD proteins also showed a cell-mediated immune response as measured by skin testing. The 71 kD protein was effective at stimulating cell-mediated immunity in humans as measured by the proliferation of peripheral blood lymphocytes from PPD-pos. individuals.

L6 ANSWER 2 OF 4 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
DUPLICATE 2
AN 1999:262701 BIOSIS
DN PREV199900262701
TI T-Cell epitope mapping of the three most abundant extracellular proteins of *Mycobacterium tuberculosis* in outbred guinea pigs.
AU Lee, Bai-Yu; Horwitz, Marcus A. [Reprint author]
CS Department of Medicine, CHS 37-121, UCLA School of Medicine, 10833 Le Conte Ave., Los Angeles, CA, 90095-1688, USA
SO Infection and Immunity, (May, 1999) Vol. 67, No. 5, pp. 2665-2670. print.
CODEN: INFIBR. ISSN: 0019-9567.
DT Article
LA English
ED Entered STN: 15 Jul 1999
Last Updated on STN: 15 Jul 1999
AB The three most abundant extracellular proteins of *Mycobacterium tuberculosis*, the 30-, 32-, and 16-kDa major extracellular proteins, are particularly promising vaccine candidates. We have mapped T-cell epitopes of these three proteins in outbred guinea pigs by immunizing the animals with each protein and assaying splenic lymphocyte proliferation against a series of overlapping synthetic peptides covering the entire length of the mature proteins. The 30-kDa protein contained nine immunodominant epitopes, the 32-kDa protein contained two immunodominant epitopes, and the 16-kDa protein contained a highly immunodominant region at its N terminus. The immunodominant epitopes of the 30- and 32-kDa proteins in outbred guinea pigs were frequently identified in healthy purified-protein-derivative-positive or BCG-vaccinated individuals in previous studies. The immunodominant epitopes of these major extracellular proteins have potential utility in an epitope-based vaccine against tuberculosis.

L6 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1998:509121 CAPLUS
DN 129:160616
TI Abundant extracellular products and methods for their production and use
IN Horwitz, Marcus A.; Harth, Gunter; Lee, Bai-yu
PA Regents of the University of California, USA

SO PCT Int. Appl., 236 pp.

CODEN: PIXXD2

DT Patent

LA English

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9831388 A1		19980723	WO 1998-US942	19980115
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG				

PRAI US 1997-786533 19970121

AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irresp. of their absolute mol. immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their resp. N-terminal amino acid, amino acid, or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compns. are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 4 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
DUPLICATE 3

AN 1997:295273 BIOSIS

DN PREV199799594476

TI High-level heterologous expression and secretion in rapidly growing nonpathogenic mycobacteria of four major *Mycobacterium tuberculosis* extracellular proteins considered to be leading vaccine candidates and drug targets.

AU Harth, Gunter; Lee, Bai-Yu; Horwitz, Marcus A. [Reprint author]
CS Dep. Med., Sch. Med., Univ. California, Los Angeles, CA, USA
SO Infection and Immunity, (1997) Vol. 65, No. 6, pp. 2321-2328.
CODEN: INFIBR. ISSN: 0019-9567.

DT Article

LA English

ED Entered STN: 9 Jul 1997

Last Updated on STN: 9 Jul 1997

AB *Mycobacterium tuberculosis*, the primary etiologic agent of tuberculosis, is the world's leading cause of death from a single infectious agent, and new vaccines and drugs to combat it are urgently needed. The major extracellular proteins of *M. tuberculosis*, which are released into its phagosome in macrophages, its host cells in humans, are leading candidates for a vaccine and prime targets for new drugs. However, the development of these biologicals has been hampered by the unavailability of large quantities of recombinant extracellular proteins identical to their native counterparts. In this report, we describe the heterologous expression and secretion of four major *M. tuberculosis* extracellular proteins (the 30-, 32-, 16-, and 23.5-kDa proteins sbd the first, second, third, and eighth most abundant, respectively) in rapidly growing, nonpathogenic mycobacterial species. Multiple attempts to obtain secretion of the proteins by using *Escherichia coli*- and *Bacillus subtilis*-based expression

systems were unsuccessful, suggesting that high-level expression and secretion of these *Mycobacterium*-specific proteins require a mycobacterial host. All four recombinant proteins were stably expressed from the cloned genes' own promoters at yields that were 5- to 10-fold higher than those observed for the native proteins. The four proteins were purified to apparent homogeneity from culture filtrates by ammonium sulfate precipitation and ion-exchange and molecular sieve chromatography. The recombinant proteins were indistinguishable from their native counterparts by multiple criteria. First, N-terminal amino acid sequence determination demonstrated that processing of the leader peptides was highly accurate. Second, sodium dodecyl sulfate-polyacrylamide gel electrophoresis analysis revealed identical migration patterns. Third, mass spectrometry analysis confirmed that differences in mass were less than 5 Da. A homolog of the *M. tuberculosis* 30-kDa protein was identified in *M. smegmatis* by means of DNA analyses and immunoscreening. This is the first time that secretion of recombinant *M. tuberculosis* extracellular proteins in their native form has been achieved. This study opens the door to mass production of correctly processed and secreted extracellular proteins of *M. tuberculosis* in a heterologous host and allows ready evaluation of their biologic and immunologic function.

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=> s tuberculosis and vaccin? and ((extracellular product?)or(extracellular
protein?))
L7      870 TUBERCULOSIS AND VACCIN? AND ((EXTRACELLULAR PRODUCT?) OR (EXTRAC
ELLULAR PROTEIN?))

=> s 17 and ((110 kd)or(80 kd)or(71 kd)or(58 kd)or(45 kd)or(32A kd)or(32B kd)or(30
kd)or(24 kd)or(23.5 kd)or(23 kd)or(16 kd)or(14 kd)or(12 kd))
L8      186 L7 AND ((110 KD) OR(80 KD) OR(71 KD) OR(58 KD) OR(45 KD) OR(32A
KD) OR(32B KD) OR(30 KD) OR(24 KD) OR(23.5 KD) OR(23 KD) OR(16
KD) OR(14 KD) OR(12 KD))

=> dup rem 18
PROCESSING COMPLETED FOR L8
L9      184 DUP REM L8 (2 DUPLICATES REMOVED)

=> d bib ab 1-
YOU HAVE REQUESTED DATA FROM 184 ANSWERS - CONTINUE? Y/ (N) :y

L9  ANSWER 1 OF 184  USPATFULL on STN
AN  2006:215520  USPATFULL
TI  Treatment of mycobacterium tuberculosis with antisense
    oligonucleotides
IN  Horwitz, Marcus A., Los Angeles, CA, UNITED STATES
    Harth, Gunter, Los Angeles, CA, UNITED STATES
    Zamecnik, Paul C, Boston, MS, UNITED STATES
    Tabatadze, David, Marlborough, MA, UNITED STATES
PI  US 2006183676      A1  20060817
AI  US 2002-478268      A1  20020520 (10)
    WO 2002-US15963      20020520
                           20031118  PCT 371 date
PRAI  US 2001-292096P    20010518 (60)
DT  Utility
FS  APPLICATION
LREP  GATES & COOPER LLP, HOWARD HUGHES CENTER, 6701 CENTER DRIVE WEST, SUITE
    1050, LOS ANGELES, CA, 90045, US
CLMN  Number of Claims: 21
ECL  Exemplary Claim: 1
DRWN  22 Drawing Page(s)
LN.CNT 3112
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB  Methods of inhibiting the proliferation of Mycobacterium
    tuberculosis comprising contacting Mycobacterium
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tuberculosis with an effective amount of a polynucleotide complementary to an mRNA transcript expressed by *Mycobacterium tuberculosis* are provided. Typical methods of the invention utilize phosphorothioate modified antisense polynucleotides (PS-ODNs) against the mRNA of *M. tuberculosis* genes such as glutamine synthetase, aroA, ask, groES, and the genes of the Antigen 85 complex. Optionally, the methods employ multiple antisense polynucleotides targeting different *Mycobacterium tuberculosis* transcripts. In preferred embodiments of the invention, the antisense polynucleotides are complementary to the 5' regions of the *Mycobacterium tuberculosis* transcripts.

L9 ANSWER 2 OF 184 USPATFULL on STN
AN 2006:214601 USPATFULL
TI Abundant extracellular products and methods for their production and use
IN Horwitz, Marcus A., Los Angeles, CA, UNITED STATES
Harth, Gunter, Los Angeles, CA, UNITED STATES
PI US 2006182754 A1 20060817
AI US 2006-334951 A1 20060118 (11)
RLI Continuation of Ser. No. US 2001-953413, filed on 14 Sep 2001, GRANTED, Pat. No. US 7002002 Continuation-in-part of Ser. No. US 1998-157689, filed on 21 Sep 1998, GRANTED, Pat. No. US 6599510 Continuation of Ser. No. US 1996-652842, filed on 23 May 1996, ABANDONED
DT Utility
FS APPLICATION
LREP PRESTON GATES & ELLIS LLP, 1900 MAIN STREET, SUITE 600, IRVINE, CA, 92614-7319, US
CLMN Number of Claims: 11
ECL Exemplary Claim: 1-11
DRWN 12 Drawing Page(s)
LN.CNT 3961
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irrespective of their absolute molecular immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their respective N-terminal amino acid, amino acid, or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compositions are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

L9 ANSWER 3 OF 184 USPATFULL on STN
AN 2006:202127 USPATFULL
TI Medical treatment
IN Champion, Brian Robert, Cambridge, UNITED KINGDOM
Ragno, Silvia, Cambridge, UNITED KINGDOM
PI US 2006172011 A1 20060803
AI US 2005-232404 A1 20050921 (11)
RLI Continuation-in-part of Ser. No. WO 2004-GB1229, filed on 22 Mar 2004, UNKNOWN
PRAI GB 2003-6583 20030321
GB 2003-6582 20030321
GB 2003-6621 20030322
GB 2003-6622 20030322

GB 2003-6626 20030322
GB 2003-6624 20030322
GB 2003-6640 20030322
GB 2003-6644 20030322
GB 2003-6650 20030322
GB 2003-6651 20030322
GB 2003-6654 20030322

DT Utility
FS APPLICATION
LREP FROMMER LAWRENCE & HAUG, 745 FIFTH AVENUE- 10TH FL., NEW YORK, NY, 10151, US
CLMN Number of Claims: 78
ECL Exemplary Claim: 1
DRWN 49 Drawing Page(s)
LN.CNT 9349
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Provided is a particle capable of being inserted into or taken up by a cell comprising i) a polynucleotide coding for a modulator of Notch signalling; and ii) a polynucleotide coding for an antigen or antigenic determinant thereof. Methods for using the particles are also described.

L9 ANSWER 4 OF 184 USPATFULL on STN
AN 2006:153719 USPATFULL
TI Full-length human cDNAs encoding potentially secreted proteins
IN Dumas Milne Edwards, Jean-Baptiste, Paris, FRANCE
Bougueleret, Lydie, Petit-Lancy, SWITZERLAND
Jobert, Severin, Praha, CZECH REPUBLIC
PA Serono Genetics Institute S.A., Evry, FRANCE (non-U.S. corporation)
PI US 2006130160 A1 20060615
AI US 2005-197712 A1 20050804 (11)
RLI Continuation of Ser. No. US 2001-876997, filed on 8 Jun 2001, PENDING
Continuation-in-part of Ser. No. US 2000-731872, filed on 7 Dec 2000, ABANDONED
PRAI US 1999-169629P 19991208 (60)
US 2000-187470P 20000306 (60)
DT Utility
FS APPLICATION
LREP SALIWANCHIK LLOYD & SALIWANCHIK, A PROFESSIONAL ASSOCIATION, PO BOX 142950, GAINESVILLE, FL, 32614-2950, US
CLMN Number of Claims: 14
ECL Exemplary Claim: 1
DRWN 5 Drawing Page(s)
LN.CNT 27361
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention concerns GENSET polynucleotides and polypeptides. Such GENSET products may be used as reagents in forensic analyses, as chromosome markers, as tissue/cell/organelle-specific markers, in the production of expression vectors. In addition, they may be used in screening and diagnosis assays for abnormal GENSET expression and/or biological activity and for screening compounds that may be used in the treatment of GENSET-related disorders.

L9 ANSWER 5 OF 184 USPATFULL on STN
AN 2006:151458 USPATFULL
TI Protein associated with cell growth, differentiation, and death
IN Azimzai, Yalda, Oakland, CA, UNITED STATES
Barroso, Ines, Cambridge, UNITED KINGDOM
Baughn, Mariah R., Los Angeles, CA, UNITED STATES
Becha, Shanya d., San Francisco, CA, UNITED STATES
Borowsky, Mark L., Northampton, MA, UNITED STATES
Duggan, Brendan M., Sunnyvale, CA, UNITED STATES
Elliott, Vicki S., San Jose, CA, UNITED STATES
Emerling, Brooke M., Chicago, IL, UNITED STATES
Forsythe, Ian J., Edmonton, CA, UNITED STATES

Gietzen, Kimberly J., San Jose, CA, UNITED STATES
 Gorvad, Ann E., Bellingham, WA, UNITED STATES
 Graul, Richard C., San Francisco, CA, UNITED STATES
 Griffin, Jennifer A., Fremont, CA, UNITED STATES
 Gururajan, Rajagopal, San Jose, CA, UNITED STATES
 Hafalia, April JA, Daly city, CA, UNITED STATES
 Ison, Craig H., San Jose, CA, UNITED STATES
 Kable, Amy E., Silver Spring, MD, UNITED STATES
 Khan, Farrah A., Canton, MI, UNITED STATES
 Lee, Sally, San Jose, CA, UNITED STATES
 Lee, Soo yeun, Mountain View, CA, UNITED STATES
 Li, Joana S., Millbrae, CA, UNITED STATES
 Reddy, Roopa, Fremont, CA, UNITED STATES
 Richardson, Thomas W., Redwood City, CA, UNITED STATES
 Sprague, William W., Sacramento, CA, UNITED STATES
 Swarnakar, Anita, San Francisco, CA, UNITED STATES
 Tang, Y. Tom, San Jose, CA, UNITED STATES
 Warren, Bridget A., San Marcos, CA, UNITED STATES
 Xu, Yuming, Mountain View, CA, UNITED STATES
 Yao, Monique E., Mountain View, CA, UNITED STATES
 Yue, Henry, Sunnyvale, CA, UNITED STATES
 Yue, Huibin, Cupertino, CA, UNITED STATES

PA Incyte Corporation, Palo Alto, CA, UNITED STATES, 94304 (U.S. corporation)
 PI US 2006127894 A1 20060615
 AI US 2002-486020 A1 20020808 (10)
 WO 2002-US25465 20020808
 20040713 PCT 371 date

PRAI US 2001-60311017 20010808
 US 2001-60313070 20010817
 US 2001-60313071 20010817
 US 2001-60314678 20010824
 US 2001-60316692 20010831
 US 2001-60317913 20010907
 US 2001-60322182 20010914
 US 2001-60340747 20011207
 US 2001-60342761 20011220
 US 2002-60369129 20020329

DT Utility
 FS APPLICATION
 LREP Incyte Corporation, Legal Department, 3160 Porter Drive, Palo Alto, CA, 94304, US
 CLMN Number of Claims: 30
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 12904

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Various embodiments of the invention provide human proteins associated with cell growth, differentiation, and death (CGDD) and polynucleotides which identify and encode CGDD. Embodiments of the invention also provide expression vectors, host cells, antibodies, agonists, and antagonists. Other embodiments provide methods for diagnosing, treating, or preventing disorders associated with aberrant expression of CGDD.

L9 ANSWER 6 OF 184 USPATFULL on STN
 AN 2006:99417 USPATFULL
 TI Modulation of immune function
 IN Briend, Emmanuel Cyrille Pascal, Cambridge, UNITED KINGDOM
 Champion, Brian Robert, Cambridge, UNITED KINGDOM
 PI US 2006084588 A1 20060420
 AI US 2005-58066 A1 20050214 (11)
 RLI Continuation of Ser. No. WO 2003-GB3556, filed on 13 Aug 2003, UNKNOWN
 PRAI GB 2002-18879 20020814
 DT Utility

FS APPLICATION
LREP FROMMER LAWRENCE & HAUG, 745 FIFTH AVENUE- 10TH FL., NEW YORK, NY,
10151, US
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 9 Drawing Page(s)
LN.CNT 4015
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Provided is method for modulating the immune system in a mammal by simultaneously, contemporaneously, separately or sequentially administering to the mammal an effective amount of a modulator of the Notch signalling pathway; and an effective amount of an interferon or a polynucleotide encoding an interferon.

L9 ANSWER 7 OF 184 USPATFULL on STN
AN 2006:98950 USPATFULL
TI T-bet compositions and methods of use thereof
IN Glimcher, Laurie H., West Newton, MA, UNITED STATES
Szabo, Susanne J., Brookline, MA, UNITED STATES
PA PRESIDENT AND FELLOWS OF HARVARD COLLEGE, Cambridge, MA, UNITED STATES
(U.S. corporation)
PI US 2006084118 A1 20060420
AI US 2005-291426 A1 20051130 (11)
RLI Division of Ser. No. US 2001-8264, filed on 3 Dec 2001, PENDING
Continuation-in-part of Ser. No. WO 2000-US15345, filed on 1 Jun 2000,
PENDING
PRAI US 1999-137085P 19990602 (60)
DT Utility
FS APPLICATION
LREP LAHIVE & COCKFIELD, LLP., 28 STATE STREET, BOSTON, MA, 02109, US
CLMN Number of Claims: 6
ECL Exemplary Claim: 1
DRWN 27 Drawing Page(s)
LN.CNT 4453
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Isolated nucleic acid molecules encoding T-bet, and isolated T-bet proteins, are provided. The invention further provides antisense nucleic acid molecules, recombinant expression vectors containing a nucleic acid molecule of the invention, host cells into which the expression vectors have been introduced and non-human transgenic animals carrying a T-bet transgene. The invention further provides T-bet fusion proteins and anti-T-bet antibodies. Methods of using the T-bet compositions of the invention are also disclosed, including methods for detecting T-bet activity in a biological sample, methods of modulating T-bet activity in a cell, and methods for identifying agents that modulate the activity of T-bet.

L9 ANSWER 8 OF 184 USPATFULL on STN
AN 2006:93539 USPATFULL
TI 98 human secreted proteins
IN Komatsoulis, George, Silver Spring, MD, UNITED STATES
Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Brookeville, MD, UNITED STATES
Duan, Roxanne D., Bethesda, MD, UNITED STATES
Moore, Paul A., North Bethesda, MD, UNITED STATES
Shi, Yanggu, Gathersburg, MD, UNITED STATES
LaFleur, David W., Washington, DC, UNITED STATES
Wei, Ying-Fei, Berkeley, CA, UNITED STATES
Ni, Jian, Gernantown, MD, UNITED STATES
Florence, Kimberly A., Rockville, MD, UNITED STATES
Young, Paul E., Gathersburg, MD, UNITED STATES
Brewer, Laurie A., Eagan, MN, UNITED STATES
Soppet, Daniel R., Centreville, VA, UNITED STATES
Endress, Gregory A., Florence, MA, UNITED STATES

Ebner, Reinhard, Gaithersburg, MD, UNITED STATES
 Olsen, Henrik, Gaithersburg, MD, UNITED STATES
 Mucenski, Michael, Cincinnati, OH, UNITED STATES
 PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES (U.S. corporation)
 PI US 2006079670 A1 20060413
 AI US 2005-229769 A1 20050920 (11)
 RLI Continuation of Ser. No. US 2002-233453, filed on 4 Sep 2002, ABANDONED
 Division of Ser. No. US 2000-489847, filed on 24 Jan 2000, GRANTED, Pat. No. US 6476195 Continuation-in-part of Ser. No. WO 1999-US17130, filed on 29 Jul 1999, PENDING
 PRAI US 1998-94657P 19980730 (60)
 US 1998-95486P 19980805 (60)
 US 1998-96319P 19980812 (60)
 US 1998-95455P 19980806 (60)
 US 1998-95454P 19980806 (60)
 DT Utility
 FS APPLICATION
 LREP HUMAN GENOME SCIENCES INC, INTELLECTUAL PROPERTY DEPT., 14200 SHADY GROVE ROAD, ROCKVILLE, MD, 20850, US
 CLMN Number of Claims: 20
 ECL Exemplary Claim: 1
 DRWN 3 Drawing Page(s)
 LN.CNT 20543
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.
 L9 ANSWER 9 OF 184 USPATFULL on STN
 AN 2006:3469 USPATFULL
 TI Conjugate of notch signalling pathway modulators and their use in medical treatment
 IN Bodmer, Mark William, Cambridge, UNITED KINGDOM
 Champion, Brian Robert, Cambridge, UNITED KINGDOM
 Lennard, Andrew Christopher, Cambridge, UNITED KINGDOM
 McKenzie, Grahame James, Cambridge, UNITED KINGDOM
 Tugal, Tamara, Cambridge, UNITED KINGDOM
 Ward, George Albert, Cambridge, UNITED KINGDOM
 PI US 2006002924 A1 20060105
 AI US 2005-50346 A1 20050203 (11)
 RLI Continuation-in-part of Ser. No. WO 2003-GB3285, filed on 1 Aug 2003, UNKNOWN
 PRAI GB 2002-18068 20020803
 GB 2002-20849 20020907
 GB 2002-20912 20020910
 GB 2002-20913 20020910
 GB 2003-234 20030107
 GB 2003-12062 20030524
 WO 2002-GB5137 20021113
 WO 2002-GB5133 20021113
 WO 2003-GB1525 20030404
 DT Utility
 FS APPLICATION
 LREP FROMMER LAWRENCE & HAUG, 745 FIFTH AVENUE- 10TH FL., NEW YORK, NY, 10151, US
 CLMN Number of Claims: 29
 ECL Exemplary Claim: 1
 DRWN 23 Drawing Page(s)
 LN.CNT 7334

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Conjugates comprising a plurality of modulators of the Notch signalling pathway chemically bound to a support structure are described. The conjugates are useful for modulation of the Notch signalling pathway and treatment of associated conditions.

L9 ANSWER 10 OF 184 USPATFULL on STN

AN 2006:211028 USPATFULL

TI Nucleic acid sequences relating to *Bacteroides fragilis* for diagnostics and therapeutics

IN Breton, Gary L., Marlboro, MA, UNITED STATES

PA Oscient Pharmaceuticals Corporation, Waltham, MA, UNITED STATES (U.S. corporation)

PI US 7090973 B1 20060815

AI US 2000-540209 20000404 (9)

PRAI US 1999-128705P 19990409 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Fredman, Jeffrey; Assistant Examiner: Sakelaris, Sally LREP Burns, Doane, Swecker & Mathis, L.L.P.

CLMN Number of Claims: 10

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 38850

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated polypeptide and nucleic acid sequences derived from *Bacteroides fragilis* that are useful in diagnosis and therapy of pathological conditions; antibodies against the polypeptides; and methods for the production of the polypeptides. The invention also provides methods for the detection, prevention and treatment of pathological conditions resulting from bacterial infection.

L9 ANSWER 11 OF 184 USPATFULL on STN

AN 2006:146715 USPATFULL

TI Nucleic acid and amino acid sequences relating to *Staphylococcus epidermidis* for diagnostics and therapeutics

IN Doucette-Stamm, Lynn, Framingham, MA, UNITED STATES

Bush, David, Somerville, MA, UNITED STATES

PA Wyeth, Madison, NJ, UNITED STATES (U.S. corporation)

PI US 7060458 B1 20060613

AI US 1999-450969 19991129 (9)

RLI Continuation-in-part of Ser. No. US 1998-134001, filed on 13 Aug 1998, Pat. No. US 6380370, issued on 30 Apr 2002

PRAI US 1997-64964P 19971108 (60)

US 1997-55779P 19970814 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Horlick, Kenneth R.

CLMN Number of Claims: 9

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 35708

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated polypeptide and nucleic acid sequences derived from *Staphylococcus epidermidis* that are useful in diagnosis and therapy of pathological conditions; antibodies against the polypeptides; and methods for the production of the polypeptides. The invention also provides methods for the detection, prevention and treatment of pathological conditions resulting from bacterial infection.

L9 ANSWER 12 OF 184 USPATFULL on STN

AN 2005:292912 USPATFULL

TI Drug discovery assays based on the biology of chronic disease

IN Polansky, Hanan, Rochester, NY, UNITED STATES

PI US 2005255458 A1 20051117
AI US 2003-611217 A1 20030701 (10)
RLI Continuation-in-part of Ser. No. US 2002-223050, filed on 14 Aug 2002,
PENDING
DT Utility
FS APPLICATION
LREP Hanan Polansky, 3159 S. Winton Rd., Rochester, NY, 14623, US
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 69 Drawing Page(s)
LN.CNT 23390

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Using the recently discovered biology of chronic disease, the invention
presents new methods for evaluating the effectiveness of a compound for
use in modulating the progression of chronic disease, for determining
whether a subject has a chronic disease, or has an increased risk of
developing clinical symptoms associated with such disease, and for
treating chronic disease.

L9 ANSWER 13 OF 184 USPATFULL on STN

AN 2005:254392 USPATFULL

TI Modulators of the Notch signalling pathway and uses thereof in medical
treatment

IN Bodmer, Mark William, Cambridge, UNITED KINGDOM
Briend, Emmanuel Cyrille Pascal, Cambridge, UNITED KINGDOM
Champion, Brian Robert, Cambridge, UNITED KINGDOM
Lennard, Andrew Christopher, Cambridge, UNITED KINGDOM
McKenzie, Grahame James, Cambridge, UNITED KINGDOM
Tugal, Tamara, Cambridge, UNITED KINGDOM
Ward, George Albert, Cambridge, UNITED KINGDOM
Young, Lesley Lynn, Cambridge, UNITED KINGDOM

PI US 2005220886 A1 20051006

AI US 2004-958784 A1 20041005 (10)

RLI Continuation-in-part of Ser. No. WO 2003-GB1525, filed on 4 Apr 2003,
UNKNOWN

PRAI GB 2002-7930 20020405
GB 2002-7929 20020405
GB 2002-12282 20020528
GB 2002-12283 20020528
GB 2002-20913 20020910
GB 2002-20912 20020910
GB 2003-234 20030107
WO 2002-GB3426 20020725
WO 2002-GB3397 20020725

DT Utility

FS APPLICATION

LREP FROMMER LAWRENCE & HAUG, 745 FIFTH AVENUE- 10TH FL., NEW YORK, NY,
10151, US

CLMN Number of Claims: 56

ECL Exemplary Claim: 1

DRWN 36 Drawing Page(s)

LN.CNT 5719

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method is disclosed for therapeutic modulation of Notch signalling by
administering a construct comprising a multiplicity of bond, linked or
immobilised modulators of Notch signalling.

L9 ANSWER 14 OF 184 USPATFULL on STN

AN 2005:247698 USPATFULL

TI Novel human genes and methods of use thereof

IN Meyers, Rachel E., Newton, MA, UNITED STATES

Curtis, Rory A.J., Ashland, MA, UNITED STATES

Glucksmann, Maria Alexandra, Lexington, MA, UNITED STATES

Bandaru, Rajasekhar, Watertown, MA, UNITED STATES

PA Kapeller-Libermann, Rosana, Chestnut Hill, MA, UNITED STATES
Millennium Pharmaceuticals, Inc., Cambridge, MA, UNITED STATES (U.S.
corporation)

PI US 2005214893 A1 20050929

AI US 2004-968812 A1 20041019 (10)

RLI Continuation of Ser. No. US 2002-176306, filed on 20 Jun 2002, ABANDONED
Continuation-in-part of Ser. No. US 2001-1137, filed on 14 Nov 2001,
ABANDONED Continuation-in-part of Ser. No. WO 2001-US45291, filed on 14
Nov 2001, PENDING Continuation-in-part of Ser. No. US 2001-23617, filed
on 18 Dec 2001, ABANDONED Continuation-in-part of Ser. No. WO
2001-US49416, filed on 18 Dec 2001, PENDING Continuation-in-part of Ser.
No. US 2001-83248, filed on 22 Oct 2001, ABANDONED

PRAI WO 2001-US46717 20011022
US 2000-248362P 20001114 (60)
US 2000-248331P 20001114 (60)
US 2000-248365P 20001114 (60)
US 2000-250077P 20001130 (60)
US 2000-250327P 20001130 (60)
US 2000-250176P 20001130 (60)
US 2000-256249P 20001218 (60)
US 2000-256405P 20001218 (60)

DT Utility
FS APPLICATION
LREP MILLENNIUM PHARMACEUTICALS, INC., 40 Landsdowne Street, CAMBRIDGE, MA,
02139, US
CLMN Number of Claims: 16
ECL Exemplary Claim: 1
DRWN 60 Drawing Page(s)
LN.CNT 26559

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated nucleic acids molecules, designated
47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234, 21617,
55562, 23566, 33489, and 57779 nucleic acid molecules, which encode novel
human genes. The invention also provides antisense nucleic acid
molecules, recombinant expression vectors containing 47476, 67210,
49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234, 21617, 55562,
23566, 33489, or 57779 nucleic acid molecules, host cells into which the
expression vectors have been introduced, and nonhuman transgenic animals
in which a 47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708,
85041, 84234, 21617, 55562, 23566, 33489, or 57779 gene has been
introduced or disrupted. The invention still further provides isolated
47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234,
21617, 55562, 23566, 33489, or 57779 proteins, fusion proteins,
antigenic peptides and anti-47476, 67210, 49875, 46842, 33201, 83378,
84233, 64708, 85041, 84234, 21617, 55562, 23566, 33489, or 57779
antibodies. Diagnostic methods utilizing compositions of the invention
are also provided.

L9 ANSWER 15 OF 184 USPATFULL on STN
AN 2005:220892 USPATFULL
TI Enzymes
IN Yang, Junming, San Jose, CA, UNITED STATES
Dyung Lu, Aina M., San Jose, CA, UNITED STATES
Yue, Henry, Sunnyvale, CA, UNITED STATES
Elliott, Vicki S., San Jose, CA, UNITED STATES
Warren, Bridget A., Encinitas, CA, UNITED STATES
Duggan, Brendan M., Sunnyvale, CA, UNITED STATES
Forsythe, Ian J., Redwood City, CA, UNITED STATES
Lee, Ernestine A., Castro Valley, CA, UNITED STATES
Hafalia, April J.A., Santa Clara, CA, UNITED STATES
Ramkumar, Jayalaxmi, Fremont, CA, UNITED STATES
Chawla, Narinder K., Union City, CA, UNITED STATES
Baughn, Mariah R., San Leandro, CA, UNITED STATES
Becha, Shanya D., Castro Valley, CA, UNITED STATES

Gorvad, Ann E., Livermore, CA, UNITED STATES
Tran, Uyen K., San Jose, CA, UNITED STATES
Li, Joana X., San Francisco, CA, UNITED STATES
Yao, Monique G., Carmel, IN, UNITED STATES
Ison, Craig H., San Jose, CA, UNITED STATES
Griffin, Jennifer A., Fremont, CA, UNITED STATES
Lee, Soo Yeun, Daly City, CA, UNITED STATES
Chang, Hsin-Ru, Belmont, CA, UNITED STATES
Emerling, Brooke M., Palo Alto, CA, UNITED STATES
Tang, Tom Y., San Jose, CA, UNITED STATES
Lal, Preeti G., Santa Clara, CA, UNITED STATES
Kable, Amy E., San Francisco, CA, UNITED STATES
Marquis, Joseph P., San Jose, CA, UNITED STATES
Jiang, Xin, Saratoga, CA, UNITED STATES
Jackson, Alan A., Los Gatos, CA, UNITED STATES
Zebarjadian, Yeganeh, San Francisco, CA, UNITED STATES
Swarnakar, Anita, San Francisco, CA, UNITED STATES
Wilson, Amy D., Belmont, CA, UNITED STATES
Jin, Pei, Palo Alto, CA, UNITED STATES
Richardson, Thomas W., Redwood City, CA, UNITED STATES
Bhatia, Umesh, San Jose, CA, UNITED STATES
Burrill, John D., Redwood City, CA, UNITED STATES
Lee, Sally, San Francisco, CA, UNITED STATES
Blake, Julie J., San Francisco, CA, UNITED STATES
Ho, Anne, Sunnyvale, CA, UNITED STATES
Zheng, Wenjin, Mountain View, CA, UNITED STATES
Gao, Jin, Sunnyvale, CA, UNITED STATES

PA Incyte Corporation, Palo Alto, CA, UNITED STATES, 94304 (U.S. corporation)

PI US 2005191627 A1 20050901

AI US 2003-491183 A1 20020926 (10)

WO 2002-US31096 20020926
20040329 PCT 371 date

PRAI US 2001-326388P 20010928 (60)
US 2003-328979P 20011012 (60)
US 2003-346034P 20011019 (60)
US 2003-348284P 20011026 (60)
US 2003-338048P 20011108 (60)
US 2003-332340P 20011116 (60)
US 2003-368799P 20020329 (60)
US 2003-368722P 20020329 (60)
US 2003-381588P 20020517 (60)
US 2003-387119P 20020607 (60)
US 2003-390662P 20020621 (60)

DT Utility

FS APPLICATION

LREP INCYTE CORPORATION, EXPERIMENTAL STATION, ROUTE 141 & HENRY CLAY ROAD, BLDG. E336, WILMINGTON, DE, 19880, US

CLMN Number of Claims: 30

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 19139

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Various embodiments of the invention provide human enzymes (ENZM) and polynucleotides which identify and encode ENZM. Embodiments of the invention also provide expression vectors, host cells, antibodies, agonists, and antagonists. Other embodiments provide methods for diagnosing, treating, or preventing disorders associated with aberrant expression of ENZM.

L9 ANSWER 16 OF 184 USPATFULL on STN

AN 2005:215706 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Damestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Klavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc., South San Francisco, CA, UNITED STATES (U.S. corporation)

PI US 2005187382 A1 20050825
AI US 2004-950374 A1 20040923 (10)

RLI Continuation of Ser. No. US 2001-992521, filed on 14 Nov 2001, ABANDONED
Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
Continuation of Ser. No. WO 2000-US8439, filed on 30 Mar 2000, PENDING
Continuation-in-part of Ser. No. US 380137, ABANDONED A 371 of International Ser. No. WO 1999-US12252, filed on 2 Jun 1999

PRAI US 1998-97979P 19980826 (60)

DT Utility
FS APPLICATION

LREP HELLER EHRLMAN LLP, 275 MIDDLEFIELD ROAD, MENLO PARK, CA, 94025-3506, US
CLMN Number of Claims: 2
ECL Exemplary Claim: 1
DRWN 330 Drawing Page(s)
LN.CNT 30348

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 17 OF 184 USPATFULL on STN
AN 2005:188839 USPATFULL
TI Heteromultimeric TNF ligand family members
IN Hilbert, David M., Bethesda, MD, UNITED STATES
Rosen, Craig A., Laytonsville, MD, UNITED STATES
PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES (U.S. corporation)

PI US 2005163747 A1 20050728
AI US 2005-28780 A1 20050105 (11)

RLI Continuation of Ser. No. US 2002-202062, filed on 25 Jul 2002, PENDING

PRAI US 2001-307838P 20010727 (60)

DT Utility
FS APPLICATION

LREP HUMAN GENOME SCIENCES INC, INTELLECTUAL PROPERTY DEPT., 14200 SHADY

GROVE ROAD, ROCKVILLE, MD, 20850, US

CLMN Number of Claims: 20

ECL Exemplary Claim: 1

DRWN 22 Drawing Page(s)

LN.CNT 14335

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to compositions comprising heteromultimeric complexes, and particularly heterotrimeric complexes, of TNF ligand family members, and methods of using such complexes in the detection, prevention, and treatment of disease. Heteromultimeric TNF ligand polypeptide complexes comprising human TNF ligand polypeptides, including soluble forms of the extracellular domains, as well as membrane bound forms of TNF ligand polypeptides are provided. Heteromultimeric TNF ligand polypeptide complexes are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of heteromultimeric TNF ligand polypeptide complexes. Also provided are diagnostic methods for detecting immune system-related disorders and therapeutic methods for treating immune system-related disorders.

L9 ANSWER 18 OF 184 USPATFULL on STN

AN 2005:158920 USPATFULL

TI Medical treatment

IN Bodmer, Mark William, Cambridge, UNITED KINGDOM

Pascal Briand, Emmanuel Cyrille, Cambridge, UNITED KINGDOM

Champion, Brian Robert, Cambridge, UNITED KINGDOM

Lennard, Andrew Christopher, Cambridge, UNITED KINGDOM

McKenzie, Grahame James, Cambridge, UNITED KINGDOM

Ragno, Silvia, Cambridge, UNITED KINGDOM

Tugal, Tamara, Cambridge, UNITED KINGDOM

Young, Lesley Lynn, Cambridge, UNITED KINGDOM

PI US 2005137130 A1 20050623

AI US 2004-845834 A1 20040514 (10)

RLI Continuation-in-part of Ser. No. WO 2002-GB5137, filed on 13 Nov 2002, UNKNOWN

PRAI GB 2001-27267 20011114

GB 2002-20849 20020907

GB 2002-20913 20020910

WO 2002-GB4390 20020927

DT Utility

FS APPLICATION

LREP FROMMER LAWRENCE & HAUG, 745 FIFTH AVENUE- 10TH FL., NEW YORK, NY, 10151, US

CLMN Number of Claims: 133

ECL Exemplary Claim: 1

DRWN 34 Drawing Page(s)

LN.CNT 9014

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An inhibitor of the Notch signalling pathway is provided for use as an immunostimulant, for example as a vaccine adjuvant.

L9 ANSWER 19 OF 184 USPATFULL on STN

AN 2005:137948 USPATFULL

TI Enzymes

IN Chawla, Narinder K., Union City, CA, UNITED STATES

Lee, Soo Yuen, Daly City, CA, UNITED STATES

Ring, Huijun Z., Los Altos, CA, UNITED STATES

Lee, Ernestine A., Castro Valley, CA, UNITED STATES

Forsythe, Ian J., Redwood City, CA, UNITED STATES

Khare, Reena, Saratoga, CA, UNITED STATES

Tran, Uyen K., San Jose, CA, UNITED STATES

Kable, Amy E., San Francisco, CA, UNITED STATES

Richardson, Thomas W., Redwood City, CA, UNITED STATES

Emerling, Brooke M., Palo Alto, CA, UNITED STATES
Lindquist, Erika A., Alameda, CA, UNITED STATES
Baughn, Mariah R., San Leandro, CA, UNITED STATES
Hafalia, April J.A., Santa Clara, CA, UNITED STATES
Jin, Pei, Palo Alto, CA, UNITED STATES
Swarnakar, Anita, San Francisco, CA, UNITED STATES
Li, Joana X., San Francisco, CA, UNITED STATES
Marquis, Joseph P., San Jose, CA, UNITED STATES
Gorvad, Ann E., Livermore, CA, UNITED STATES
Sprague, William W., Sacramento, CA, UNITED STATES
Becha, Shanya D., Castro Valley, CA, UNITED STATES
Elliott, Vicki S., San Jose, CA, UNITED STATES

PI US 2005118594 A1 20050602
AI US 2003-498788 A1 20021212 (10)
WO 2002-US40161 20021212

PRAI US 2001-340357P 20011214 (60)
US 2003-342962P 20011220 (60)
US 2003-343558P 20011221 (60)
US 2003-351107P 20020122 (60)

DT Utility
FS APPLICATION
LREP FOLEY AND LARDNER, SUITE 500, 3000 K STREET NW, WASHINGTON, DC, 20007,
US

CLMN Number of Claims: 59
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 16691

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Various embodiments of the invention provide human enzymes (ENZM) and polynucleotides which identify and encode-ENZM. Embodiments of the invention also provide expression vectors, host cells, antibodies, agonists, and antagonists. Other embodiments provide methods for diagnosing, treating, or preventing disorders associated with aberrant expression of ENZM.

L9 ANSWER 20 OF 184 USPATFULL on STN
AN 2005:137547 USPATFULL
TI Optimization of gene sequences of chimeric virus-like particles for expression in insect cells
IN Robinson, Robin A., Dickerson, MD, UNITED STATES
Cioce, Vittoria, Kinsington, MD, UNITED STATES
PA Novavax, Inc. (U.S. corporation)
PI US 2005118191 A1 20050602
AI US 2004-918337 A1 20040813 (10)
RLI Continuation of Ser. No. WO 2003-US4473, filed on 14 Feb 2003, PENDING
PRAI US 2002-356119P 20020214 (60)
US 2002-356161P 20020214 (60)
US 2002-356118P 20020214 (60)
US 2002-356133P 20020214 (60)
US 2002-356157P 20020214 (60)
US 2002-356156P 20020214 (60)
US 2002-356123P 20020214 (60)
US 2002-356113P 20020214 (60)
US 2002-356154P 20020214 (60)
US 2002-356135P 20020214 (60)
US 2002-356126P 20020214 (60)
US 2002-356162P 20020214 (60)
US 2002-356150P 20020214 (60)
US 2002-356151P 20020214 (60)
US 2002-356152P 20020214 (60)

DT Utility
FS APPLICATION
LREP PALMER & DODGE, LLP, KATHLEEN M. WILLIAMS, 111 HUNTINGTON AVENUE,
BOSTON, MA, 02199, US

CLMN Number of Claims: 40

ECL Exemplary Claim: 1

DRWN 15 Drawing Page(s)

LN.CNT 3436

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Chimeric virus-like particles that exhibit conformational antigenic epitopes capable of eliciting neutralizing antibodies are disclosed herein. The chimeric virus-like particles of the invention comprise a recombinant viral capsid protein that encapsulates a recombinant viral protein during self-assembly into a chimeric virus-like particle, wherein the chimeric virus-like particle exhibits conformational antigenic epitopes capable of eliciting neutralizing antibodies. Pharmaceutical compositions, vaccines, and diagnostic test kits containing the chimeric virus-particles are also provided.

L9 ANSWER 21 OF 184 USPATFULL on STN

AN 2005:131264 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Damestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Klavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc., South San Francisco, CA, UNITED STATES (U.S. corporation)

PI US 2005112725 A1 20050526

AI US 2004-978255 A1 20041029 (10)

RLI Continuation of Ser. No. US 2001-989862, filed on 19 Nov 2001, PENDING
Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
Continuation of Ser. No. WO 2000-US8439, filed on 30 Mar 2000, PENDING
Continuation-in-part of Ser. No. US 380137, ABANDONED A 371 of International Ser. No. WO 1999-US12252, filed on 2 Jun 1999

PRAI US 1999-141037P 19990623 (60)

US 1998-88810P 19980610 (60)

DT Utility

FS APPLICATION

LREP HELLER EHRLICH WHITE & MCAULIFFE LLP, 275 MIDDLEFIELD ROAD, MENLO PARK, CO, 94025-3506, US

CLMN Number of Claims: 24

ECL Exemplary Claim: 1-118

DRWN 330 Drawing Page(s)

LN.CNT 38226

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic

acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 22 OF 184 USPATFULL on STN
AN 2005:112372 USPATFULL
TI Full-length human cDNAs encoding potentially secreted proteins
IN Dumas Milne Edwards, Jean-Baptiste, Paris, FRANCE
Bougueleret, Lydie, Petit Lancy, SWITZERLAND
Jobert, Severin, Paris, FRANCE
PI US 2005096458 A1 20050505
AI US 2003-643836 A1 20030819 (10)
RLI Division of Ser. No. US 2000-731872, filed on 7 Dec 2000, ABANDONED
PRAI US 1999-169629P 19991208 (60)
US 2000-187470P 20000306 (60)
DT Utility
FS APPLICATION
LREP SALIWANCHIK LLOYD & SALIWANCHIK, A PROFESSIONAL ASSOCIATION, PO BOX
142950, GAINESVILLE, FL, 32614-2950, US
CLMN Number of Claims: 16
ECL Exemplary Claim: 1
DRWN 5 Drawing Page(s)
LN.CNT 28075

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention concerns GENSET polynucleotides and polypeptides. Such GENSET products may be used as reagents in forensic analyses, as chromosome markers, as tissue/cell/organelle-specific markers, in the production of expression vectors. In addition, they may be used in screening and diagnosis assays for abnormal GENSET expression and/or biological activity and for screening compounds that may be used in the treatment of GENSET-related disorders.

L9 ANSWER 23 OF 184 USPATFULL on STN
AN 2005:68954 USPATFULL
TI Method for detecting modulators of Notch signalling
IN Bodmer, Mark William, Cambridge, UNITED KINGDOM
Briend, Emmanuel Cyrille Pascal, Cambridge, UNITED KINGDOM
Champion, Brian Robert, Cambridge, UNITED KINGDOM
McKenzie, Grahame James, Cambridge, UNITED KINGDOM
Tugal, Tamara, Cambridge, UNITED KINGDOM
Ward, George Albert, Cambridge, UNITED KINGDOM
Young, Lesley Lynn, Cambridge, UNITED KINGDOM
PI US 2005059093 A1 20050317
AI US 2004-764415 A1 20040123 (10)
RLI Continuation-in-part of Ser. No. WO 2002-GB3397, filed on 25 Jul 2002,
UNKNOWN
PRAI GB 2001-18153 20010725
GB 2002-7930 20020405
GB 2002-12282 20020528
GB 2002-12283 20020528
DT Utility
FS APPLICATION
LREP FROMMER LAWRENCE & HAUG, 745 FIFTH AVENUE- 10TH FL., NEW YORK, NY, 10151
CLMN Number of Claims: 84
ECL Exemplary Claim: 1
DRWN 36 Drawing Page(s)
LN.CNT 6463

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for detecting modulators of Notch signalling is described. The method includes the step of monitoring Notch signalling in a cell of the immune system in the presence of a candidate modulator.

L9 ANSWER 24 OF 184 USPATFULL on STN
AN 2005:30321 USPATFULL
TI Modulators of Notch signalling for use in immunotherapy
IN Bodmer, Mark William, Cambridge, UNITED KINGDOM
Briend, Emmanuel Cyrille Pascal, Cambridge, UNITED KINGDOM
Champion, Brian Robert, Cambridge, UNITED KINGDOM
Young, Lesley Lynn, Cambridge, UNITED KINGDOM
PI US 2005025751 A1 20050203
AI US 2004-765727 A1 20040123 (10)
RLI Continuation-in-part of Ser. No. WO 2002-GB3426, filed on 25 Jul 2002,
UNKNOWN
PRAI GB 2001-18153 20010725
GB 2002-7930 20020405
GB 2002-12282 20020528
GB 2002-12283 20020528
DT Utility
FS APPLICATION
LREP FROMMER LAWRENCE & HAUG, 745 FIFTH AVENUE- 10TH FL., NEW YORK, NY, 10151
CLMN Number of Claims: 32
ECL Exemplary Claim: 1
DRWN 36 Drawing Page(s)
LN.CNT 6391
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB New uses of modulators of Notch signalling in therapy and corresponding
methods of treatment are provided.

L9 ANSWER 25 OF 184 USPATFULL on STN
AN 2005:250255 USPATFULL
TI Methods and compositions for inhibition of membrane fusion-associated
events, including HIV transmission
IN Barney, Shawn O'Lin, Cary, NC, UNITED STATES
Lambert, Dennis Michael, Cary, NC, UNITED STATES
Petteway, Stephen Robert, Cary, NC, UNITED STATES
PA Trimeris, Inc., Durham, NC, UNITED STATES (U.S. corporation)
PI US 6951717 B1 20051004
AI US 1995-484741 19950607 (8)
RLI Division of Ser. No. US 1995-470896, filed on 6 Jun 1995, PENDING
Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994,
Pat. No. US 6017536 Continuation-in-part of Ser. No. US 1994-255208,
filed on 7 Jun 1994, PENDING Continuation-in-part of Ser. No. US
1993-73028, filed on 7 Jun 1993, Pat. No. US 5464933
DT Utility
FS GRANTED
EXNAM Primary Examiner: Scheiner, Laurie; Assistant Examiner: Parkin, Jeffrey
S.
LREP Pennie & Edmonds LLP
CLMN Number of Claims: 50
ECL Exemplary Claim: 1
DRWN 94 Drawing Figure(s); 93 Drawing Page(s)
LN.CNT 43743
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Parainfluenza virus types 1 to 4 (PIV1 to PIV4) are important human
pathogens that cause upper and lower respiratory tract infections,
particularly in infants and children. The claimed invention is directed
toward novel methods for the inhibition of parainfluenza virus
transmission to a cell involving the administration of synthetic peptide
fusion inhibitors. These inhibitors are derived from the parainfluenza
virus and vary in length between 16 to 39 amino acids. The peptides were
identified by screening for the presence of fusion inhibitory motifs
(e.g., ALLMOTI5, 107x178x4, and PLZIP) within the parainfluenza virus
genome. A number of peptides were identified and their fusion inhibitory
activities ascertained. These peptides should provide useful antiviral
agents.

L9 ANSWER 26 OF 184 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1
 AN 2004:1005855 CAPLUS
 DN 141:423309
 TI Combinations of abundant extracellular proteins from
Mycobacterium tuberculosis and methods for their production and
 use as vaccines
 IN Horwitz, Marcus A.; Harth, Gunter; Lee, Bai-Yu
 PA USA
 SO U.S. Pat. Appl. Publ., 109 pp., Cont.-in-part of U.S. Ser. No. 786,533,
 abandoned.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004228873	A1	20041118	US 2003-695155	20031027
	US 6752993	B1	20040622	US 1993-156358	19931123
	WO 9605223	A1	19960222	WO 1995-US2373	19950224
	W: MX				
	US 6761894	B1	20040713	US 1995-447398	19950523
	AU 9886140	A1	19990114	AU 1998-86140	19980922
	AU 728433	B2	20010111		
	JP 2005104983	A2	20050421	JP 2004-321293	20041104
PRAI	US 1993-156358	A2	19931123		
	US 1994-289667	B2	19940812		
	US 1995-447398	A2	19950523		
	US 1995-545926	B2	19951020		
	US 1995-551149	B2	19951031		
	US 1996-652842	B2	19960523		
	US 1996-568357	B2	19961206		
	US 1997-786533	B2	19970121		
	AU 1995-10977	A3	19941118		
	JP 1995-515114	A3	19941118		
AB	The inventions involves vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irresp. of their absolute mol. immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their resp. N-terminal amino acid, amino acid, or DNA sequences. The vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids. The vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular <i>Mycobacterium</i> tuberculosis. The invention further claims use of immunodominant epitopes comprising peptide sequences from <i>M. tuberculosis</i> 32A kD protein subunits and an adjuvant selected from IL-12 and MF 59. In addition, the immunodominant epitopes may be used as immunodiagnostic agents for <i>Mycobacterium</i> infections in a mammalian host. Methods of producing abundant extracellular products selected from the group of <i>M. tuberculosis</i> 110 kD, 80 kD, 71 kD, 58 kD, 45 kD, 32A kD, 32B kD, 30 kD, 24 kD, 23.5 kD, 23 kD, 16 kD, 14 kD, and 12 kD proteins comprise transforming <i>M. smegmatis</i> or <i>M.</i> <i>vaccae</i> with nucleic acids encoding a protein and culturing the transformed cell at 28 °C. In the examples, guinea pigs immunized with the				

30 kD extracellular protein and then challenged with aerosolized *M. tuberculosis* were protected against death. Guinea pigs immunized with the 71 kD extracellular protein maintained a consistent body weight over 13 wk after the challenge. The 30 and 71 kD proteins also showed a cell-mediated immune response as measured by skin testing. The 71 kD protein was effective at stimulating cell-mediated immunity in humans as measured by the proliferation of peripheral blood lymphocytes from PPD-pos. individuals.

L9 ANSWER 27 OF 184 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2
 AN 2004:563392 CAPLUS

DN 141:105248

TI Combinations of abundant extracellular products of pathogens and methods for their production and use as vaccines, in particular for *Mycobacterium*

IN Horwitz, Marcus A.

PA The Regents of the University of California, USA

SO U.S., 58 pp., Cont.-in-part of U.S. Ser. No. 289,667.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6761894	B1	20040713	US 1995-447398	19950523
	US 6752993	B1	20040622	US 1993-156358	19931123
	CA 2177249	AA	19950601	CA 1994-2177249	19941118
	CN 1142231	A	19970205	CN 1994-194859	19941118
	CN 1103781	B	20030326		
	WO 9605223	A1	19960222	WO 1995-US2373	19950224
	W: MX				
	CA 2222000	AA	19961128	CA 1996-2222000	19960523
	WO 9637219	A1	19961128	WO 1996-US7781	19960523
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
	AU 9660245	A1	19961211	AU 1996-60245	19960523
	EP 828510	A1	19980318	EP 1996-917836	19960523
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 11506320	T2	19990608	JP 1996-535943	19960523
	BR 9608894	A	19991207	BR 1996-8894	19960523
	NZ 309945	A	20010427	NZ 1996-309945	19960523
	US 6599510	B1	20030729	US 1998-157689	19980921
	AU 9886140	A1	19990114	AU 1998-86140	19980922
	AU 728433	B2	20010111		
	NZ 510063	A	20021126	NZ 2001-510063	20010220
	US 2002131975	A1	20020919	US 2001-953510	20010914
	US 6818223	B2	20041116		
	US 2004018209	A1	20040129	US 2001-953413	20010914
	US 7002002	B2	20060221		
	US 2003152584	A1	20030814	US 2002-147255	20020515
	US 2004228873	A1	20041118	US 2003-695155	20031027
	JP 2005104983	A2	20050421	JP 2004-321293	20041104
PRAI	US 1993-156358	A2	19931123		
	US 1994-289667	A2	19940812		
	AU 1995-10977	A3	19941118		
	JP 1995-515114	A3	19941118		
	US 1995-447398	A	19950523		
	US 1995-545926	A	19951020		

US 1995-551149	A	19951031
NZ 1996-309945	A1	19960523
US 1996-652842	B1	19960523
WO 1996-US7781	W	19960523
US 1996-568357	A	19961206
US 1997-786533	B2	19970121
US 1998-157689	A2	19980921
US 1999-226539	B1	19990106

AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irresp. of their absolute mol. immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their resp. N-terminal amino acid or DNA sequences. As the vaccines may comprise different combinations of the extracellular products or encoding nucleic acids, a broad range effective immunotherapeutic compns. are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*. In one embodiment cell-mediated immunity was tested in PPD-pos. and -neg. humans with one of the purified majorly abundant protein of 71 kDa. Among the PPD-pos. individuals, there was a linear correlation between the peak stimulation indexes to the 71 kDa protein and to PPD, demonstrating the induction of a strong cell-mediated response to the most prominent extracellular products of *M. tuberculosis* in humans previously exposed to it. The data correspond to the reactivity profile seen in guinea pigs and confirm the applicability of the guinea pig model to other mammals subject to infection.

RE.CNT 216 THERE ARE 216 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 28 OF 184 USPATFULL on STN
 AN 2004:285801 USPATFULL
 TI Enzyme treatment
 IN Anderson, David M., Rockville, MD, UNITED STATES
 Liu, Lin, Rockville, MD, UNITED STATES
 Hsiao, Hung-Yu, Rockville, MD, UNITED STATES
 Fodge, Douglas W., Derwood, MD, UNITED STATES
 PA CHEMGEN CORPORATION (U.S. corporation)
 PI US 2004223961 A1 20041111
 AI US 2004-855416 A1 20040528 (10)
 RLI Continuation of Ser. No. US 2000-731971, filed on 8 Dec 2000, GRANTED,
 Pat. No. US 6780628
 PRAI US 1999-169935P 19991210 (60)
 DT Utility
 FS APPLICATION
 LREP FOLEY AND LARDNER, SUITE 500, 3000 K STREET NW, WASHINGTON, DC, 20007
 CLMN Number of Claims: 33
 ECL Exemplary Claim: CLM-01-33
 DRWN 1 Drawing Page(s)
 LN.CNT 1664

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Enzymes of a particular class, characterized by the ability to cleave a linkage that effects release of a cell-surface protein or carbohydrate, which does not contain an anti-infection agent, display significant anti-infectious activity. Upon oral administration, these enzymes are effective, for example, in the treatment of digestive tract infections in humans and in animals. In the latter, there are benefits of significantly improved growth rate, feed efficiency, and overall health.

L9 ANSWER 29 OF 184 USPATFULL on STN
AN 2004:280221 USPATFULL
TI Novel nucleic acids and polypeptides
IN Tang, Y. Tom, San Jose, CA, UNITED STATES
Wang, Zhiwei, Sunnyvale, CA, UNITED STATES
Weng, Gezhi, Piedmont, CA, UNITED STATES
Boyle, Bryan J., San Francisco, CA, UNITED STATES
Drmanac, Radoje T., Palo Alto, CA, UNITED STATES
PI US 2004219521 A1 20041104
AI US 2002-128558 A1 20020422 (10)
RLI Continuation-in-part of Ser. No. WO 2000-US35017, filed on 22 Dec 2000,
PENDING Continuation-in-part of Ser. No. US 2000-552317, filed on 25 Apr
2000, ABANDONED Continuation-in-part of Ser. No. US 2000-488725, filed
on 21 Jan 2000, PENDING Continuation-in-part of Ser. No. WO 2001-US2623,
filed on 25 Jan 2001, PENDING Continuation-in-part of Ser. No. US
2000-491404, filed on 25 Jan 2000, ABANDONED
PRAI WO 2000-US35017 20001222
WO 2001-US2623 20010125
WO 2001-US3800 20010205
WO 2001-US4927 20010226
WO 2001-US4941 20010305
WO 2001-US8631 20010330
WO 2001-US8656 20010418
US 2001-339453P 20011211 (60)
DT Utility
FS APPLICATION
LREP Luisa Bigornia, HYSEQ, INC., 670 Almanor Avenue, Sunnyvale, CA, 94085
CLMN Number of Claims: 26
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 13159
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides novel nucleic acids, novel polypeptide
sequences encoded by these nucleic acids and uses thereof.

L9 ANSWER 30 OF 184 USPATFULL on STN
AN 2004:274281 USPATFULL
TI Compositions and methods for treatment of neoplastic disease
IN Terman, David S., Pebble Beach, CA, UNITED STATES
PI US 2004214783 A1 20041028
AI US 2003-428817 A1 20030505 (10)
PRAI US 2002-378988P 20020508 (60)
US 2002-389366P 20020615 (60)
US 2002-406697P 20020828 (60)
US 2002-406750P 20020829 (60)
US 2002-415310P 20021001 (60)
US 2002-415400P 20021002 (60)
US 2003-438686P 20030109 (60)
DT Utility
FS APPLICATION
LREP VENABLE, BAETJER, HOWARD AND CIVILETTI, LLP, P.O. BOX 34385, WASHINGTON,
DC, 20043-9998
CLMN Number of Claims: 16
ECL Exemplary Claim: 1
DRWN 3 Drawing Page(s)
LN.CNT 20475
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Compositions and methods for treating a tumor, neoplastic disease or
infectious disease in a subject are based on superantigens in the form
of polypeptides including fusion polypeptides or conjugates, homologues,
and fragments, all of which induce a tumoricidal response when
administered directly into tumor or an organ sheath or body cavity
affected by the tumor. Nucleic acid constructs encoding the foregoing

polypeptides are also used in antitumor therapy. The above agents may be administered in sustained release or controlled release vehicles at or near sites of tumors in a tumor-bearing subject.

L9 ANSWER 31 OF 184 USPATFULL on STN
AN 2004:221241 USPATFULL
TI Lipid-associated molecules
IN Tang, Y. Tom, San Jose, CA, UNITED STATES
Yue, Henry, Sunnyvale, CA, UNITED STATES
Azimzai, Yalda, Oakland, CA, UNITED STATES
Baughn, Mariah R., Los Angeles, CA, UNITED STATES
Burford, Neil, Durham, CT, UNITED STATES
Reddy, Roopa M., Fremont, CA, UNITED STATES
Chawla, Narinder K., Union City, CA, UNITED STATES
Das, Debopriya, Oyster Bay, NY, UNITED STATES
Nguyen, Dannie B., San Jose, CA, UNITED STATES
Yao, Monique G., Mountain View, CA, UNITED STATES
Arvizu, Chandra S., San Diego, CA, UNITED STATES
Lu, Yan, Mountain View, CA, UNITED STATES
Gandhi, Ameena R., San Francisco, CA, UNITED STATES
Griffin, Jennifer A., Fremont, CA, UNITED STATES
Elliott, Vicki S., San Jose, CA, UNITED STATES
Ramkumar, Jayalaxmi, Fremont, CA, UNITED STATES
Lal, Preeti G., Santa Clara, CA, UNITED STATES
Lu, Dyung Aina M., San Jose, CA, UNITED STATES
Lee, Ernestine A., Kensington, CA, UNITED STATES
Lee, Soo Yeun, Mountain View, CA, UNITED STATES
Yue, Huibin, Cupertino, CA, UNITED STATES
Yang, Junming, San Jose, CA, UNITED STATES
Tribouley, Catherine M., San Francisco, CA, UNITED STATES
Kable, Amy E., Silver Spring, MD, UNITED STATES
Swarnakar, Anita, San Francisco, CA, UNITED STATES
PI US 2004171009 A1 20040902
AI US 2003-478245 A1 20031118 (10)
WO 2002-US15688 20020517
PRAI US 2001-292242P 20010518 (60)
DT Utility
FS APPLICATION
LREP FOLEY AND LARDNER, SUITE 500, 3000 K STREET NW, WASHINGTON, DC, 20007
CLMN Number of Claims: 75
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 7739
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides human lipid-associated molecules (LIPAM) and polynucleotides which identify and encode LIPAM. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating, or preventing disorders associated with aberrant expression of LIPAM.

L9 ANSWER 32 OF 184 USPATFULL on STN
AN 2004:158665 USPATFULL
TI Optimization of gene sequences of virus-like particles for expression in insect cells
IN Robinson, Robin A., Dickerson, MD, UNITED STATES
PA Novavax, Inc., Columbia, MD, UNITED STATES, 21046 (U.S. corporation)
PI US 2004121465 A1 20040624
AI US 2003-367367 A1 20030214 (10)
PRAI US 2002-356119P 20020214 (60)
US 2002-356161P 20020214 (60)
US 2002-356118P 20020214 (60)
US 2002-356133P 20020214 (60)
US 2002-356157P 20020214 (60)

US 2002-356156P 20020214 (60)
US 2002-356123P 20020214 (60)
US 2002-356113P 20020214 (60)
US 2002-356154P 20020214 (60)
US 2002-356135P 20020214 (60)
US 2002-356126P 20020214 (60)
US 2002-356162P 20020214 (60)
US 2002-356150P 20020214 (60)
US 2002-356151P 20020214 (60)
US 2002-356152P 20020214 (60)

DT Utility

FS APPLICATION

LREP Ralph A. Loren, LAHIVE & COCKFIELD, LLP, 28 State Street, Boston, MA, 02109

CLMN Number of Claims: 30

ECL Exemplary Claim: 1

DRWN 15 Drawing Page(s)

LN.CNT 3440

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Codon optimized polynucleotides for optimal expression of recombinant proteins in eukaryotic cells are provided. The codon optimized polynucleotides encode a viral capsid protein that self assembles into a virus-like particle. The virus-like particle is expressed extracellularly and exhibits conformational antigenic epitopes capable of raising neutralizing antibodies. Pharmaceutical compositions, vaccines, and diagnostic test kits containing the gene products of the codon-optimized polynucleotides are also provided.

L9 ANSWER 33 OF 184 USPATFULL on STN

AN 2004:151408 USPATFULL

TI Molecules for diagnostics and therapeutics

IN Panzer, Scott R, Sunnyvale, CA, UNITED STATES
Lincoln, Stephen E, Potomac, MD, UNITED STATES
Altus, Christina M, Campbell, CA, UNITED STATES
Dufour, Gerard E, Castro Valley, CA, UNITED STATES
Jackson, Jennifer L, Santa Cruz, CA, UNITED STATES
Jones, Anissa L, San Jose, CA, UNITED STATES
Dam, Tam C, San Jose, CA, UNITED STATES
Liu, Tommy, Daly City, CA, UNITED STATES
Harris, Bernard, Sunnyvale, CA, UNITED STATES
Flores, Vincent Z, Union City, CA, UNITED STATES
Daffo, Abel, San Jose, CA, UNITED STATES
Marwaha, Rakesh, Burnaby, CANADA
Chen, Alice J, San Jose, CA, UNITED STATES
Chang, Simon C, Sunnyvale, CA, UNITED STATES
Gerstlin, Edward H, JR., San Jose, CA, UNITED STATES
Peralta, Careyna H, Santa Clara, CA, UNITED STATES
David, Marie H, Daly City, CA, UNITED STATES
Lewis, Samantha A, San Leandro, CA, UNITED STATES

PI US 2004115629 A1 20040617

AI US 2003-250889 A1 20030709 (10)
WO 2002-US1009 20020109

DT Utility

FS APPLICATION

LREP INCYTE CORPORATION, 3160 PORTER DRIVE, PALO ALTO, CA, 94304

CLMN Number of Claims: 28

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 16703

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides purified human polynucleotides for diagnostics and therapeutics (dithp). Also encompassed are the polypeptides (DITHP) encoded by dithp. The invention also provides for the use of dithp, or complements, oligonucleotides, or fragments thereof

in diagnostic assays. The invention further provides for vectors and host cells containing dithp for the expression of DITHP. The invention additionally provides for the use of isolated and purified DITHP to induce antibodies and to screen libraries of compounds and the use of anti-DITHP antibodies in diagnostic assays. Also provided are microarrays containing dithp and methods of use.

L9 ANSWER 34 OF 184 USPATFULL on STN
AN 2004:114066 USPATFULL
TI Lipid-associated molecules
IN Das, Debopriya, Mountain View, CA, UNITED STATES
Yao, Monique G, Mountain View, CA, UNITED STATES
Arvizu, Chandra S, San Diego, CA, UNITED STATES
Baughn, Mariah R, Los Angeles, CA, UNITED STATES
Lu, Yan, Mountain View, CA, UNITED STATES
Hafalia, April J A, Daly City, CA, UNITED STATES
Chawla, Narinder K, Union City, CA, UNITED STATES
Griffin, Jennifer A, Fremont, CA, UNITED STATES
Lu, Dyung Aina M, San Jose, CA, UNITED STATES
Yue, Henry, Sunnyvale, CA, UNITED STATES
Ding, Li, Creve Couer, MO, UNITED STATES
Elliott, Vicki S, San Jose, CA, UNITED STATES
Forsythe, Ian J, Edmonton, CANADA
Ramkumar, Jayalaxmi, Fremont, CA, UNITED STATES
Gandhi, Ameena R, San Francisco, CA, UNITED STATES
Ison, Craig H, San Jose, CA, UNITED STATES
Tang, Y Tom, San Jose, CA, UNITED STATES
Emerling, Brooke M, Chicago, IL, UNITED STATES
Honchell, Cynthia D, San Carlos, CA, UNITED STATES
Warren, Bridget A, San Marcos, CA, UNITED STATES
Lyne, Michael, Cambridge, UNITED KINGDOM
Barroso, Ines, Cambridge, UNITED KINGDOM
PI US 2004086905 A1 20040506
AI US 2003-467248 A1 20030806 (10)
WO 2002-US3813 20020206
PRAI US 2001-60266910 20010206
US 2001-60276891 20010316
US 2001-60276855 20010316
US 2001-60279760 20010328
US 2001-60283818 20010413
US 2001-60285405 20010420
DT Utility
FS APPLICATION
LREP INCYTE CORPORATION, 3160 PORTER DRIVE, PALO ALTO, CA, 94304
CLMN Number of Claims: 73
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 7236
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides human lipid-associated molecules (LIPAM) and polynucleotides which identify and encode LIPAM. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating, or preventing disorders associated with aberrant expression of LIPAM.
L9 ANSWER 35 OF 184 USPATFULL on STN
AN 2004:82737 USPATFULL
TI Kit for treating gastrointestinal tract
IN Robinson, Robin A., Dickerson, MD, UNITED STATES
Thompson, Mark W., Morgan Hill, CA, UNITED STATES
PA Novavax, Inc., Columbia, MD (U.S. corporation)
PI US 2004063188 A1 20040401
AI US 2003-368046 A1 20030214 (10)

PRAI US 2002-356119P 20020214 (60)
US 2002-356161P 20020214 (60)
US 2002-356118P 20020214 (60)
US 2002-356133P 20020214 (60)
US 2002-356157P 20020214 (60)
US 2002-356156P 20020214 (60)
US 2002-356123P 20020214 (60)
US 2002-356113P 20020214 (60)
US 2002-356154P 20020214 (60)
US 2002-356135P 20020214 (60)
US 2002-356126P 20020214 (60)
US 2002-356162P 20020214 (60)
US 2002-356150P 20020214 (60)
US 2002-356151P 20020214 (60)
US 2002-356152P 20020214 (60)

DT Utility
FS APPLICATION
LREP Ralph A. Loren, LAHIVE & COCKFIELD, LLP, 28 State Street, Boston, MA, 02109
CLMN Number of Claims: 52
ECL Exemplary Claim: 1
DRWN 15 Drawing Page(s)
LN.CNT 3490
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Methods for isolation and purification or recombinant gene products are disclosed. In particular, methods for isolation and purification of extracellular and intracellular viral gene products, including virus-like particles, are disclosed herein.

L9 ANSWER 36 OF 184 USPATFULL on STN
AN 2004:69593 USPATFULL
TI Fusion proteins comprising DP-178 and other viral fusion inhibitor peptides useful for treating aids
IN Bolognesi, Dani Paul, Durham, NC, UNITED STATES
Matthews, Thomas James, Durham, NC, UNITED STATES
Wild, Carl T., Durham, NC, UNITED STATES
Barney, Shawn O'apost Lin, Cary, NC, UNITED STATES
Lambert, Dennis Michael, Cary, NC, UNITED STATES
Petteway, Stephen Robert, Cary, NC, UNITED STATES
Langlois, Alphonse J., Durham, NC, UNITED STATES
PA Duke University (U.S. corporation)
Trimeris, Inc. (U.S. corporation)
PI US 2004052820 A1 20040318
AI US 2002-267748 A1 20021008 (10)
RLI Continuation of Ser. No. US 1995-484223, filed on 7 Jun 1995, PENDING
Division of Ser. No. US 1995-470896, filed on 6 Jun 1995, GRANTED, Pat. No. US 6479055 Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994, GRANTED, Pat. No. US 6017536 Continuation-in-part of Ser. No. US 1994-255208, filed on 7 Jun 1994, GRANTED, Pat. No. US 6440656 Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993, GRANTED, Pat. No. US 5464933

DT Utility
FS APPLICATION
LREP PENNIE AND EDMONDS, 1155 AVENUE OF THE AMERICAS, NEW YORK, NY, 100362711
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 83 Drawing Page(s)
LN.CNT 40442
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to peptides which exhibit potent anti-retroviral activity. The peptides of the invention comprise DP178 (SEQ ID:1) peptide corresponding to amino acids 638 to 673 of the HIV-1 sub.LAI gp41 protein, and fragments, analogs and homologs of DP178. The invention further relates to the uses of such peptides as

inhibitory of human and non-human retroviral, especially HIV, transmission to uninfected cells.

L9 ANSWER 37 OF 184 USPATFULL on STN

AN 2004:63735 USPATFULL

TI Molecules for diagnostics and therapeutics

IN Panzer, Scott R., Sunnyvale, CA, UNITED STATES

Spiro, Peter A., Palo Alto, CA, UNITED STATES

Banville, Steven C., Palo Alto, CA, UNITED STATES

Shah, Purvi, San Jose, CA, UNITED STATES

Chalup, Michael S., Sunnyvale, CA, UNITED STATES

Chang, Simon C, Mountain View, CA, UNITED STATES

Chen, Alice J., San Jose, CA, UNITED STATES

D'Sa, Steven A., East Palo, CA, UNITED STATES

Amshey, Stefan, San Francisco, CA, UNITED STATES

Dahl, Christopher E., Fremont, CA, UNITED STATES

Dam, Tam C., San Jose, CA, UNITED STATES

Daniels, Susan E., Palo Alto, CA, UNITED STATES

Dufour, Gerard E., Castro Valley, CA, UNITED STATES

Flores, Vincent, Union City, CA, UNITED STATES

Fong, Willy T., San Francisco, CA, UNITED STATES

Greenawalt, Lila B., San Jose, CA, UNITED STATES

Jackson, Jennifer L., Mountain View, CA, UNITED STATES

Jones, Anissa L., San Jose, CA, UNITED STATES

Liu, Tommy F., Daly City, CA, UNITED STATES

Lincoln, Ann M. Roseberry, Redwood City, CA, UNITED STATES

Rosen, Bruce H., Menlo Park, CA, UNITED STATES

Russo, Frank D., Rossette Court Sunnyvale, CA, UNITED STATES

Stockdreher, Theresa K., Sunnyvale, CA, UNITED STATES

Daffo, Abel, San Jose, CA, UNITED STATES

Wright, Rachel J., Mountain View, CA, UNITED STATES

Yap, Pierre E., Lafayette, CA, UNITED STATES

Yu, Jimmy Y., Fremont, CA, UNITED STATES

Bradley, Diana L., Soquel, CA, UNITED STATES

Bratcher, Shawn R., Mountain View, CA, UNITED STATES

Chen, Wensheng, Mountain View, CA, UNITED STATES

Cohen, Howard J., Palo Alto, CA, UNITED STATES

Hodgson, David M., Ann Arbor, MI, UNITED STATES

Lincoln, Stephen E., Redwood City, CA, UNITED STATES

Jackson, Stuart E., Mountain View, CA, UNITED STATES

PI US 2004048253 A1 20040311

AI US 2003-220120 A1 20030605 (10)

WO 2001-US6059 20010221

DT Utility

FS APPLICATION

LREP Incyte Genomics Inc, Legal Department, 3160 Porter Drive, Palo Alto, CA, 94304

CLMN Number of Claims: 27

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 17872

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides purified human polynucleotides for diagnostics and therapeutics (dithp). Also encompassed are the polypeptides (DITHP) encoded by dithp. The invention also provides for the use of dithp, or complements, oligonucleotides, or fragments thereof in diagnostic assays. The invention further provides for vectors and host cells containing dithp for the expression of DITHP. The invention additionally provides for the use of isolated and purified DITHP to induce antibodies and to screen libraries of compounds and the use of anti-DITHP antibodies in diagnostic assays. Also provided are microarrays containing dithp and methods of use.

L9 ANSWER 38 OF 184 USPATFULL on STN

AN 2004:45202 USPATFULL
TI 98 human secreted proteins
IN Komatsoulis, George A., Silver Spring, MD, UNITED STATES
Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Brookeville, MD, UNITED STATES
Duan, D. Roxanne, Bethesda, MD, UNITED STATES
Moore, Paul A., Germantown, MD, UNITED STATES
Shi, Yanggu, Gaithersburg, MD, UNITED STATES
LaFleur, David W., Washington, DC, UNITED STATES
Wei, Ying-Fei, Berkeley, CA, UNITED STATES

PI US 2004034196 A1 20040219

AI US 2003-351334 A1 20030127 (10)

RLI Continuation-in-part of Ser. No. US 2000-489847, filed on 24 Jan 2000,
GRANTED, Pat. No. US 6476195 Continuation-in-part of Ser. No. WO
1999-US17130, filed on 29 Jul 1999, PENDING

PRAI US 2002-350898P 20020125 (60)
US 1998-94657P 19980730 (60)
US 1998-95486P 19980805 (60)
US 1998-96319P 19980812 (60)
US 1998-95454P 19980806 (60)
US 1998-95455P 19980806 (60)

DT Utility

FS APPLICATION

LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850

CLMN Number of Claims: 24

ECL Exemplary Claim: 1

DRWN 6 Drawing Page(s)

LN.CNT 24589

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

L9 ANSWER 39 OF 184 USPATFULL on STN

AN 2004:44245 USPATFULL

TI Nucleic acids encoding DP-178 and other viral fusion inhibitor peptides useful for treating aids

IN Bolognesi, Dani Paul, Durham, NC, UNITED STATES
Matthews, Thomas James, Durham, NC, UNITED STATES
Wild, Carl T., Durham, NC, UNITED STATES

PA Duke University (U.S. corporation)

PI US 2004033235 A1 20040219

AI US 2003-267682 A1 20030106 (10)

RLI Continuation of Ser. No. US 1995-484223, filed on 7 Jun 1995, PENDING
Division of Ser. No. US 1995-470896, filed on 6 Jun 1995, GRANTED, Pat. No. US 6479055 Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994, GRANTED, Pat. No. US 6017536 Continuation-in-part of Ser. No. US 1994-255208, filed on 7 Jun 1994, GRANTED, Pat. No. US 6440656 Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993, GRANTED, Pat. No. US 5464933

DT Utility

FS APPLICATION

LREP PENNIE AND EDMONDS, 1155 AVENUE OF THE AMERICAS, NEW YORK, NY, 100362711

CLMN Number of Claims: 15

ECL Exemplary Claim: 1

DRWN 63 Drawing Page(s)

LN.CNT 59510

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to peptides which exhibit potent anti-retroviral activity. The peptides of the invention comprise DP178

(SEQ ID:1) peptide corresponding to amino acids 638 to 673 of the HIV-1 sub.LAI gp41 protein, and fragments, analogs and homologs of DP178. The invention further relates to the uses of such peptides as inhibitory of human and non-human retroviral, especially HIV, transmission to uninfected cells.

L9 ANSWER 40 OF 184 USPATFULL on STN
AN 2004:31069 USPATFULL
TI Assays for drug discovery based on microcompetition with a foreign polynucleotide
IN Polansky, Hanan, Rochester, NY, UNITED STATES
PI US 2004023207 A1 20040205
AI US 2002-211295 A1 20020801 (10)
DT Utility
FS APPLICATION
LREP Hanan Polansky, 3159 S. Winton Rd., Rochester, NY, 14623
CLMN Number of Claims: 47
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 6607
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A recent discovery showed that microcompetition between a foreign polynucleotide and a cellular polynucleotide is a risk factor for some of the major chronic diseases. The invention uses this novel discovery to present assays for screening compounds based on their effectiveness in modulating such microcompetition. The effective compounds can be used in treatment of these chronic diseases. The invention also presents assays for screening compounds that can be used in treatment of chronic diseases resulting from other foreign polynucleotide-type disruptions.

L9 ANSWER 41 OF 184 USPATFULL on STN
AN 2004:31068 USPATFULL
TI Methods for chronic disease diagnosis based on microcompetition with a foreign polynucleotide
IN Polansky, Hanan, Rochester, NY, UNITED STATES
PI US 2004023206 A1 20040205
AI US 2002-207421 A1 20020729 (10)
DT Utility
FS APPLICATION
LREP Hanan Polansky, 3159 S. Winton Rd., Rochester, NY, 14623
CLMN Number of Claims: 48
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 6532
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Microcompetition between a foreign polynucleotide and a cellular polynucleotide is a risk factor associated with chronic disease. The invention uses this novel discovery to present assays for the diagnosis of chronic disease. The assays are based on measuring the cellular copy number of the foreign polynucleotide, measuring the rate of complex formation between the microcompeted cellular transcription factor and either the foreign polynucleotide or the cellular polynucleotide, identifying modified expression of a gene susceptible to microcompetition with a foreign polynucleotide, or identifying modified activity of a gene product of a gene susceptible to microcompetition with a foreign polynucleotide. The invention also presents other foreign polynucleotide-type assays

L9 ANSWER 42 OF 184 USPATFULL on STN
AN 2004:30627 USPATFULL
TI Inhibition of microcompetition with a foreign polynucleotide as treatment of chronic disease
IN Polansky, Hanan, Rochester, NY, UNITED STATES
PI US 2004022764 A1 20040205

AI US 2002-209026 A1 20020731 (10)
DT Utility
FS APPLICATION
LREP Hanan Polansky, 3159 S. Winton Rd., Rochester, NY, 14623
CLMN Number of Claims: 21
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 6147
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Microcompetition between a foreign polynucleotide and a cellular polynucleotide is a risk factor associated with chronic disease. The invention uses this novel discovery to present methods for the treatment of chronic disease. The methods are based on modifying the microcompetition between a polynucleotide natural to a subject suffering from a chronic disease and a polynucleotide foreign to the subject. Specifically, the treatment may modify the cellular copy number of the foreign polynucleotide, change the rate of complex formation between the microcompeted cellular transcription factor and either the foreign polynucleotide or the cellular polynucleotide, vary the expression of a gene susceptible to such microcompetition, or manipulate the activity of a gene product of a gene susceptible to microcompetition with a foreign polynucleotide. The invention also presents methods for the treatment of chronic disease resulting from other foreign polynucleotide-type disruptions.

L9 ANSWER 43 OF 184 USPATFULL on STN
AN 2004:24371 USPATFULL
TI Abundant extracellular products and methods for their production and use
IN Horwitz, Marcus A., Los Angeles, CA, UNITED STATES
Harth, Gunter, Los Angeles, CA, UNITED STATES
PA The Regenets of The University of California (U.S. corporation)
PI US 2004018209 A1 20040129
US 7002002 B2 20060221
AI US 2001-953413 A1 20010914 (9)
RLI Continuation-in-part of Ser. No. US 1998-157689, filed on 21 Sep 1998, PENDING Continuation of Ser. No. US 1996-652842, filed on 23 May 1996, ABANDONED Continuation-in-part of Ser. No. US 1996-568357, filed on 6 Dec 1996, ABANDONED Continuation-in-part of Ser. No. US 1995-551149, filed on 31 Oct 1995, ABANDONED Continuation-in-part of Ser. No. US 1995-447398, filed on 23 May 1995, PENDING Continuation-in-part of Ser. No. US 1994-289667, filed on 12 Aug 1994, ABANDONED Continuation-in-part of Ser. No. US 1993-156358, filed on 23 Nov 1993, PENDING
DT Utility
FS APPLICATION
LREP OPPENHEIMER WOLFF & DONNELLY LLP, 840 NEWPORT CENTER DRIVE, SUITE 700, NEWPORT BEACH, CA, 92660
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 12 Drawing Page(s)
LN.CNT 4101
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irrespective of their absolute molecular immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their respective N-terminal amino acid, amino acid, or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad

range of effective immunotherapeutic compositions are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

L9 ANSWER 44 OF 184 USPATFULL on STN
AN 2004:18785 USPATFULL
TI Molecules for diagnostics and therapeutics
IN Hodgson, David M., Ann Arbor, MI, UNITED STATES
Lincoln, Stephen E., Potomac, MD, UNITED STATES
Russo, Frank D., Sunnyvale, CA, UNITED STATES
Albany, Peter A., Berkeley, CA, UNITED STATES
Banville, Steve C., Sunnyvale, CA, UNITED STATES
Bratcher, Shawn R., Mountain View, CA, UNITED STATES
Dufour, Gerard E., Castro Valley, CA, UNITED STATES
Cohen, Howard J., Palo Alto, CA, UNITED STATES
Rosen, Bruce H., Menlo Park, CA, UNITED STATES
Chalup, Michael S., Livingston, TX, UNITED STATES
Jackson, Jennifer L., Santa Cruz, CA, UNITED STATES
Jones, Anissa L., San Jose, CA, UNITED STATES
Yu, Jimmy Y., Fremont, CA, UNITED STATES
Greenawalt, Lila B., San Jose, CA, UNITED STATES
Panzer, Scott R., Sunnyvale, CA, UNITED STATES
Roseberry Lincoln, Ann M., Potomac, MD, UNITED STATES
Wright, Rachel J., Merivale, NEW ZEALAND
Daniels, Susan E., Mountain View, CA, UNITED STATES
PA Incyte Corporation, Palo Alto, CA, UNITED STATES (U.S. corporation)
PI US 2004014087 A1 20040122
AI US 2003-378029 A1 20030228 (10)
RLI Continuation-in-part of Ser. No. US 2001-980285, filed on 30 Nov 2001,
PENDING A 371 of International Ser. No. WO 2000-US15404, filed on 31 May
2000, PENDING
PRAI US 1999-147500P 19990805 (60)
US 1999-147542P 19990805 (60)
US 1999-147541P 19990805 (60)
US 1999-147824P 19990805 (60)
US 1999-147547P 19990805 (60)
US 1999-147530P 19990805 (60)
US 1999-147536P 19990805 (60)
US 1999-147520P 19990805 (60)
US 1999-147527P 19990805 (60)
US 1999-147549P 19990805 (60)
US 1999-147377P 19990804 (60)
US 1999-147436P 19990804 (60)
US 1999-137411P 19990603 (60)
US 1999-137396P 19990603 (60)
US 1999-137417P 19990603 (60)
US 1999-137337P 19990603 (60)
US 1999-137173P 19990602 (60)
US 1999-137114P 19990602 (60)
US 1999-137259P 19990602 (60)
US 1999-137113P 19990602 (60)
US 1999-137260P 19990602 (60)
US 1999-137258P 19990602 (60)
US 1999-137109P 19990602 (60)
US 1999-137161P 19990601 (60)
DT Utility
FS APPLICATION
LREP INCYTE CORPORATION (formerly known as Incyte, Genomics, Inc.), 3160
PORTER DRIVE, PALO ALTO, CA, 94304
CLMN Number of Claims: 19
ECL Exemplary Claim: 1
DRWN No Drawings

LN.CNT 14819

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides purified human polynucleotides for diagnostics and therapeutics (dithp). Also encompassed are the polypeptides (DITHP) encoded by dithp. The invention also provides for the use of dithp, or complements, oligonucleotides, or fragments thereof in diagnostic assays. The invention further provides for vectors and host cells containing dithp for the expression of DITHP. The invention additionally provides for the use of isolated and purified DITHP to induce antibodies and to screen libraries of compounds and the use of anti-DITHP antibodies in diagnostic assays. Also provided are microarrays containing dithp and methods of use.

L9 ANSWER 45 OF 184 USPATFULL on STN

AN 2004:13596 USPATFULL

TI Novel proteins and nucleic acids encoding same

IN Guo, Xiaojia, Branford, CT, UNITED STATES

Fernandes, Elma, Branford, CT, UNITED STATES

Li, Li, Branford, CT, UNITED STATES

Kekuda, Ramesh, Stamford, CT, UNITED STATES

Liu, Yi, New Haven, CT, UNITED STATES

Leite, Mario, Milford, CT, UNITED STATES

Spytek, Kimberly A., New Haven, CT, UNITED STATES

Ji, Weizhen, Branford, CT, UNITED STATES

Casman, Stacie J., North Haven, CT, UNITED STATES

Boldog, Ference L., North Haven, CT, UNITED STATES

Patturajan, Meera, Branford, CT, UNITED STATES

Vernet, Corine A. M., Branford, CT, UNITED STATES

Ballinger, Robert A., Newington, CT, UNITED STATES

Malyankar, Uriel M., Branford, CT, UNITED STATES

Tchernev, Velizar T., Branford, CT, UNITED STATES

Blalock, Angela D., Branford, CT, UNITED STATES

Gusev, Vladimir Y., Madison, CT, UNITED STATES

Rastelli, Luca, Guilford, CT, UNITED STATES

Mezes, Peter D., Old Lyme, CT, UNITED STATES

Ellerman, Karen, Branford, CT, UNITED STATES

Heyes, Melvyn, New Haven, CT, UNITED STATES

Herrmann, John L., Guilford, CT, UNITED STATES

Shimkets, Richard A., Guilford, CT, UNITED STATES

Ioime, Noelle, Hamden, CT, UNITED STATES

Pena, Carol E. A., New Haven, CT, UNITED STATES

Shenoy, Suresh G., Branford, CT, UNITED STATES

Taupier, Raymond J., JR., East Haven, CT, UNITED STATES

Gerlach, Valerie, Branford, CT, UNITED STATES

Gorman, Linda, East Haven, CT, UNITED STATES

PI US 2004010119 A1 20040115

AI US 2002-74978 A1 20020212 (10)

PRAI US 2001-268221P 20010212 (60)

US 2001-268496P 20010213 (60)

US 2001-268665P 20010214 (60)

US 2001-268646P 20010214 (60)

US 2001-269136P 20010215 (60)

US 2001-269310P 20010216 (60)

US 2001-269530P 20010216 (60)

US 2001-276405P 20010315 (60)

US 2001-276703P 20010316 (60)

US 2001-276399P 20010316 (60)

US 2001-278199P 20010323 (60)

US 2001-279274P 20010328 (60)

US 2001-280238P 20010330 (60)

US 2001-280899P 20010402 (60)

US 2001-310797P 20010808 (60)

US 2001-312284P 20010814 (60)

US 2001-322294P 20010914 (60)

US 2001-322295P 20010914 (60)
US 2001-330293P 20011018 (60)
US 2001-335104P 20011031 (60)
US 2001-335109P 20011031 (60)
US 2001-332127P 20011121 (60)
US 2001-331772P 20011121 (60)

DT Utility

FS APPLICATION

LREP Ivor R. Elrifi, Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., One Financial Center, Boston, MA, 02111

CLMN Number of Claims: 77

ECL Exemplary Claim: 1

DRWN 1 Drawing Page(s)

LN.CNT 23189

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are nucleic acid sequences that encode novel polypeptides. Also disclosed are polypeptides encoded by these nucleic acid sequences, and antibodies, which immunospecifically-bind to the polypeptide, as well as derivatives, variants, mutants, or fragments of the aforementioned polypeptide, polynucleotide, or antibody. The invention further discloses therapeutic, diagnostic and research methods for diagnosis, treatment, and prevention of disorders involving any one of these novel human nucleic acids and proteins.

L9 ANSWER 46 OF 184 USPATFULL on STN

AN 2004:7465 USPATFULL

TI Poroplasts

IN Surber, Mark W., Coronado, CA, UNITED STATES
Giacalone, Matthew, San Diego, CA, UNITED STATES

PI US 2004005700 A1 20040108

AI US 2002-157339 A1 20020528 (10)

DT Utility

FS APPLICATION

LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614

CLMN Number of Claims: 18

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 18539

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 47 OF 184 USPATFULL on STN

AN 2004:301902 USPATFULL

TI Methods for inhibition of membrane fusion-associated events, including HIV transmission

IN Bolognesi, Dani Paul, Durham, NC, United States
Matthews, Thomas James, Durham, NC, United States
Wild, Carl T., Durham, NC, United States

PA Duke University, Durham, NC, United States (U.S. corporation)

PI US 6824783 B1 20041130

AI US 1995-487266 19950607 (8)

RLI Division of Ser. No. US 1995-470896, filed on 6 Jun 1995, now patented, Pat. No. US 6479055 Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994, now patented, Pat. No. US 6017536 Continuation-in-part of Ser. No. US 1994-255208, filed on 7 Jun 1994, now patented, Pat. No. US 5440656 Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993, now patented, Pat. No. US 5464933

DT Utility

FS GRANTED

EXNAM Primary Examiner: Housel, James; Assistant Examiner: Parkin, Jeffrey S.

LREP Pennie & Edmonds LLP
CLMN Number of Claims: 118
ECL Exemplary Claim: 1
DRWN 84 Drawing Figure(s); 83 Drawing Page(s)
LN.CNT 25013

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to peptides which exhibit potent anti-retroviral activity. The peptides of the invention comprise DP178 (SEQ ID:1) peptide corresponding to amino acids 638 to 673 of the HIV-1 sub.LAI gp41 protein, and fragments, analogs and homologs of DP178. The invention further relates to the uses of such peptides as inhibitory of human and non-human retroviral, especially HIV, transmission to uninfected cells.

L9 ANSWER 48 OF 184 USPATFULL on STN

AN 2004:217827 USPATFULL
TI Cathepsin V-like polypeptides
IN Tang, Y. Tom, San Jose, CA, United States
Goodrich, Ryle W., Los Angeles, CA, United States
Asundi, Vinod, Foster City, CA, United States
Drmanac, Radoje T., Palo Alto, CA, United States
PA Nuvelo, Inc., Sunnyvale, CA, United States (U.S. corporation)
PI US 6783969 B1 20040831
AI US 2001-799451 20010305 (9)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Myers, Carla J.

CLMN Number of Claims: 3

ECL Exemplary Claim: 1

DRWN 0 Drawing Figure(s); 0 Drawing Page(s)

LN.CNT 7745

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel nucleic acids, novel polypeptide sequences encoded by these nucleic acids and uses thereof.

L9 ANSWER 49 OF 184 USPATFULL on STN

AN 2004:154381 USPATFULL
TI Abundant extracellular product vaccines and methods for their production and use
IN Horwitz, Marcus A., Los Angeles, CA, United States
PA The Regents of the University of California, Oakland, CA, United States (U.S. corporation)
PI US 6752993 B1 20040622
AI US 1993-156358 19931123 (8)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Swartz, Rodney P

LREP Cullman, Louis C.

CLMN Number of Claims: 24

ECL Exemplary Claim: 1

DRWN 13 Drawing Figure(s); 8 Drawing Page(s)

LN.CNT 2794

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Vaccines based on majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irrespective of their absolute molecular immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. In addition to other infectious agents, the vaccines-so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

L9 ANSWER 50 OF 184 USPATFULL on STN
AN 2004:78909 USPATFULL
TI Non-stochastic generation of genetic vaccines and enzymes
IN Short, Jay M., Rancho Santa Fe, CA, United States
PA Diversa Corporation, San Diego, CA, United States (U.S. corporation)
PI US 6713279 B1 20040330
AI US 2000-498557 20000204 (9)
RLI Continuation-in-part of Ser. No. US 2000-495052, filed on 31 Jan 2000, now patented, Pat. No. US 6479253 Continuation-in-part of Ser. No. US 1999-332835, filed on 14 Jun 1999, now patented, Pat. No. US 6537776 Continuation-in-part of Ser. No. US 1999-276860, filed on 26 Mar 1999, now patented, Pat. No. US 6352842 Continuation-in-part of Ser. No. US 1999-267118, filed on 9 Mar 1999, now patented, Pat. No. US 6238884 Continuation-in-part of Ser. No. US 1999-246178, filed on 4 Feb 1999, now patented, Pat. No. US 6171820 Continuation-in-part of Ser. No. US 1998-185373, filed on 3 Nov 1998, now patented, Pat. No. US 6335179 Continuation of Ser. No. US 1996-760489, filed on 5 Dec 1996, now patented, Pat. No. US 5830696 Continuation-in-part of Ser. No. US 1997-962504, filed on 31 Oct 1997 Continuation-in-part of Ser. No. US 1996-677112, filed on 9 Jul 1996, now patented, Pat. No. US 5965408 Continuation-in-part of Ser. No. US 1996-651568, filed on 22 May 1996, now patented, Pat. No. US 5939250

PRAI US 1995-8311P 19951207 (60)
US 1995-8316P 19951207 (60)

DT Utility
FS GRANTED

EXNAM Primary Examiner: Park, Hankyel T.

LREP Love, Jane M., Butler, James E.

CLMN Number of Claims: 105

ECL Exemplary Claim: 1

DRWN 73 Drawing Figure(s); 64 Drawing Page(s)

LN.CNT 19098

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides methods of obtaining novel polynucleotides and encoded polypeptides by use of non-stochastic methods of directed evolution (DirectEvolution.TM.). These methods include non-stochastic polynucleotide site-saturation mutagenesis (Gene Site Saturation Mutagenesis.TM.) and non-stochastic polynucleotide reassembly (GeneReassembly.TM.). Through use of the claimed methods, genetic vaccines, enzymes, and other desirable molecules can be evolved towards desirable properties. For example, vaccine vectors can be obtained that exhibit increased efficacy for use as genetic vaccines. Vectors obtained by using the methods can have, for example, enhanced antigen expression, increased uptake into a cell, increased stability in a cell, ability to tailor an immune response, and the like. This invention provides methods of obtaining novel enzymes that have optimized physical &/or biological properties. Furthermore, this invention provides methods of obtaining a variety of novel biologically active molecules, in the fields of antibiotics, pharmacotherapeutics, and transgenic traits.

L9 ANSWER 51 OF 184 USPATFULL on STN

AN 2003:330124 USPATFULL

TI Minicell-based screening for compounds and proteins that modulate the activity of signalling proteins

IN Surber, Mark W., Coronado, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES

PI US 2003232335 A1 20031218

AI US 2002-157317 A1 20020528 (10)

PRAI US 2002-359843P 20020225 (60)

DT Utility

FS APPLICATION

LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,

IRVINE, CA, 92614
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 18564

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 52 OF 184 USPATFULL on STN
AN 2003:324681 USPATFULL
TI Secreted and transmembrane polypeptides and nucleic acids encoding the same
IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Klavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PA Genentech, Inc. (U.S. corporation)
PI US 2003228656 A1 20031211
AI US 2001-992643 A1 20011114 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
Continuation of Ser. No. WO 2000-US8439, filed on 30 Mar 2000, PENDING
Continuation of Ser. No. WO 1999-US30095, filed on 16 Dec 1999, PENDING
Continuation of Ser. No. US 380137, PENDING A 371 of International Ser.
No. WO 1999-US12252, filed on 2 Jun 1999, PENDING
PRAI US 1998-113296P 19981222 (60)
US 1998-88742P 19980610 (60)
DT Utility
FS APPLICATION
LREP Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite
3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599
CLMN Number of Claims: 118
ECL Exemplary Claim: 1
DRWN 330 Drawing Page(s)
LN.CNT 32378

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for

producing the polypeptides of the present invention.

L9 ANSWER 53 OF 184 USPATFULL on STN
AN 2003:324680 USPATFULL
TI Secreted and transmembrane polypeptides and nucleic acids encoding the same
IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PA Genentech, Inc. (U.S. corporation)
PI US 2003228655 A1 20031211
US 7070955 B2 20060704
AI US 2001-989733 A1 20011120 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
Continuation of Ser. No. WO 2000-US8439, filed on 30 Mar 2000, PENDING
Continuation of Ser. No. US 380137, PENDING A 371 of International Ser.
No. WO 1999-US12252, filed on 2 Jun 1999, PENDING
PRAI US 1999-141037P 19990623 (60)
US 1998-95916P 19980810 (60)
DT Utility
FS APPLICATION
LREP Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite
3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599
CLMN Number of Claims: 118
ECL Exemplary Claim: 1
DRWN 330 Drawing Page(s)
LN.CNT 32385
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 54 OF 184 USPATFULL on STN
AN 2003:318700 USPATFULL
TI Antibodies to native conformations of membrane proteins
IN Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Surber, Mark W., Coronado, CA, UNITED STATES
PI US 2003224444 A1 20031204

AI US 2002-157491 A1 20020528 (10)
PRAI US 2002-359843P 20020225 (60)
DT Utility
FS APPLICATION
LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,
IRVINE, CA, 92614
CLMN Number of Claims: 19
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 18559
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

L9 ANSWER 55 OF 184 USPATFULL on STN
AN 2003:318635 USPATFULL
TI Novel nucleic acids and polypeptides
IN Tang, Y. Tom, San Jose, CA, UNITED STATES
Yang, Yonghong, San Jose, CA, UNITED STATES
Wang, Zhiwei, Sunnyvale, CA, UNITED STATES
Weng, Gezhi, Piedmont, CA, UNITED STATES
Ma, Yunqing, Santa Clara, CA, UNITED STATES
PI US 2003224379 A1 20031204
AI US 2002-243552 A1 20020912 (10)
RLI Continuation-in-part of Ser. No. WO 2000-US35017, filed on 22 Dec 2000,
PENDING Continuation-in-part of Ser. No. US 2000-552317, filed on 25 Apr
2000, ABANDONED Continuation-in-part of Ser. No. US 2000-488725, filed
on 21 Jan 2000, PENDING
PRAI WO 2001-US2623 20010125
WO 2001-US3800 20010205
WO 2001-US4927 20010226
WO 2001-US4941 20010305
WO 2001-US8631 20010330
WO 2001-US8656 20010416
WO 2001-US14827 20010516
US 2001-322511P 20010913 (60)
DT Utility
FS APPLICATION
LREP Elena Quertermous, 675 Almanor Avenue, Sunnyvale, CA, 94085
CLMN Number of Claims: 26
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 13810
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides novel nucleic acids, novel polypeptide
sequences encoded by these nucleic acids and uses thereof.

L9 ANSWER 56 OF 184 USPATFULL on STN
AN 2003:318625 USPATFULL
TI Reverse screening and target identification with minicells
IN Surber, Mark W., Coronado, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Gerhart, William, La Mesa, CA, UNITED STATES
PI US 2003224369 A1 20031204
AI US 2002-157171 A1 20020528 (10)
PRAI US 2002-359843P 20020225 (60)
DT Utility
FS APPLICATION
LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,
IRVINE, CA, 92614
CLMN Number of Claims: 20
ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 18610

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 57 OF 184 USPATFULL on STN

AN 2003:318615 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)

PI US 2003224358 A1 20031204

AI US 2001-997641 A1 20011115 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201
WO 1999-US30095 19991216
WO 1999-US30911 19990220
WO 2000-US219 20000105
WO 2000-US376 20000106
WO 2000-US3565 20000211
WO 2000-US4341 20000218
WO 2000-US4414 20000222
WO 2000-US4914 20000224
WO 2000-US5004 20000224
WO 2000-US5841 20000302
WO 2000-US6319 20000310

WO 2000-US6884	20000315
WO 2000-US7377	20000320
WO 2000-US8439	20000330
WO 2000-US13358	20000515
WO 2000-US14042	20000522
WO 2000-US15264	20000602
WO 2000-US13705	20000517
WO 2000-US14941	20000530
WO 2000-US20710	20000728
WO 2000-US22031	20000811
WO 2000-US23522	20000823
WO 2000-US23328	20000824
WO 2000-US30952	20001108
WO 2000-US32678	20001201
WO 2001-US6520	20010228
WO 2001-US17800	20010601
WO 2001-US19692	20010620
WO 2001-US21066	20010629
WO 2001-US21735	20010709
US 1997-49787P	19970616 (60)
US 1997-62250P	19971017 (60)
US 1997-65186P	19971112 (60)
US 1997-65311P	19971113 (60)
US 1997-66770P	19971124 (60)
US 1998-75945P	19980225 (60)
US 1998-78910P	19980320 (60)
US 1998-83322P	19980428 (60)
US 1998-84600P	19980507 (60)
US 1998-87106P	19980528 (60)
US 1998-87607P	19980602 (60)
US 1998-87609P	19980602 (60)
US 1998-87759P	19980602 (60)
US 1998-87827P	19980603 (60)
US 1998-88021P	19980604 (60)
US 1998-88025P	19980604 (60)
US 1998-88026P	19980604 (60)
US 1998-88028P	19980604 (60)
US 1998-88029P	19980604 (60)
US 1998-88030P	19980604 (60)
US 1998-88033P	19980604 (60)
US 1998-88326P	19980604 (60)
US 1998-88167P	19980605 (60)
US 1998-88202P	19980605 (60)
US 1998-88212P	19980605 (60)
US 1998-88217P	19980605 (60)
US 1998-88655P	19980609 (60)
US 1998-88734P	19980610 (60)
US 1998-88738P	19980610 (60)
US 1998-88742P	19980610 (60)
US 1998-88810P	19980610 (60)
US 1998-88824P	19980610 (60)
US 1998-88826P	19980610 (60)
US 1998-88858P	19980611 (60)
US 1998-88861P	19980611 (60)
US 1998-88876P	19980611 (60)
US 1998-89105P	19980612 (60)
US 1998-89440P	19980616 (60)
US 1998-89512P	19980616 (60)
US 1998-89514P	19980616 (60)
US 1998-89532P	19980617 (60)
US 1998-89538P	19980617 (60)
US 1998-89598P	19980617 (60)
US 1998-89599P	19980617 (60)
US 1998-89600P	19980617 (60)

US 1998-89653P	19980617 (60)
US 1998-89801P	19980618 (60)
US 1998-89907P	19980618 (60)
US 1998-89908P	19980618 (60)
US 1998-89948P	19980619 (60)
US 1998-89952P	19980619 (60)
US 1998-90246P	19980622 (60)
US 1998-90252P	19980622 (60)
US 1998-90254P	19980622 (60)
US 1998-90349P	19980623 (60)
US 1998-90355P	19980623 (60)
US 1998-90429P	19980624 (60)
US 1998-90431P	19980624 (60)
US 1998-90435P	19980624 (60)
US 1998-90444P	19980624 (60)
US 1998-90445P	19980624 (60)
US 1998-90472P	19980624 (60)
US 1998-90535P	19980624 (60)
US 1998-90540P	19980624 (60)
US 1998-90542P	19980624 (60)
US 1998-90557P	19980624 (60)
US 1998-90676P	19980625 (60)
US 1998-90678P	19980625 (60)
US 1998-90690P	19980625 (60)
US 1998-90694P	19980625 (60)
US 1998-90695P	19980625 (60)
US 1998-90696P	19980625 (60)
US 1998-90862P	19980626 (60)
US 1998-90863P	19980626 (60)
US 1998-91360P	19980701 (60)
US 1998-91478P	19980702 (60)
US 1998-91544P	19980701 (60)
US 1998-91519P	19980702 (60)
US 1998-91626P	19980702 (60)
US 1998-91633P	19980702 (60)
US 1998-91628P	19980702 (60)
US 1998-91646P	19980702 (60)
US 1998-91673P	19980702 (60)
US 1998-91978P	19980707 (60)
US 1998-91982P	19980707 (60)
US 1998-92182P	19980709 (60)
US 1998-92472P	19980710 (60)
US 1998-93339P	19980720 (60)
US 1998-94651P	19980730 (60)
US 1998-95282P	19980804 (60)
US 1998-95285P	19980804 (60)
US 1998-95302P	19980804 (60)
US 1998-95318P	19980804 (60)
US 1998-95321P	19980804 (60)
US 1998-95301P	19980804 (60)
US 1998-95325P	19980804 (60)
US 1998-95916P	19980810 (60)
US 1998-95929P	19980810 (60)
US 1998-96012P	19980810 (60)
US 1998-96143P	19980811 (60)
US 1998-96146P	19980811 (60)
US 1998-96329P	19980812 (60)
US 1998-96757P	19980817 (60)
US 1998-96766P	19980817 (60)
US 1998-96768P	19980817 (60)
US 1998-96773P	19980817 (60)
US 1998-96791P	19980817 (60)
US 1998-96867P	19980817 (60)
US 1998-96891P	19980817 (60)

US 1998-96894P	19980817 (60)
US 1998-96895P	19980817 (60)
US 1998-96897P	19980817 (60)
US 1998-96949P	19980818 (60)
US 1998-96950P	19980818 (60)
US 1998-96959P	19980818 (60)
US 1998-96960P	19980818 (60)
US 1998-97022P	19980818 (60)
US 1998-97141P	19980819 (60)
US 1998-97218P	19980820 (60)
US 1998-97661P	19980824 (60)
US 1998-97952P	19980826 (60)
US 1998-97954P	19980826 (60)
US 1998-97955P	19980826 (60)
US 1998-98014P	19980826 (60)
US 1998-97971P	19980826 (60)
US 1998-97974P	19980826 (60)
US 1998-97978P	19980826 (60)
US 1998-97986P	19980826 (60)
US 1998-97979P	19980826 (60)
US 1998-98525P	19980831 (60)
US 1998-100634P	19980916 (60)
US 1998-100858P	19980917 (60)
US 1998-113296P	19981222 (60)
US 1999-123957P	19990312 (60)
US 1999-141037P	19990623 (60)
US 1999-143048P	19990707 (60)
US 1999-144758P	19990720 (60)
US 1999-145698P	19990726 (60)
US 1999-146222P	19990728 (60)
US 1999-149396P	19990817 (60)
US 1999-158663P	19991008 (60)
US 2000-213637P	20000623 (60)
US 2000-230978P	20000907 (60)

DT

Utility

FS

APPLICATION

LREP

HELLER EHRMAN WHITE & MCAULIFFE LLP, WO, 275 MIDDLEFIELD ROAD, MENLO PARK, CO, 94025-3506

CLMN

Number of Claims: 118

ECL

Exemplary Claim: 1

DRWN

330 Drawing Page(s)

LN.CNT 32338

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB

The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 58 OF 184 USPATFULL on STN

AN 2003:312291 USPATFULL

TI Minicell-based bioremediation

IN Segall, Anca M., San Diego, CA, UNITED STATES
Klepper, Robert, San Diego, CA, UNITED STATES

PI US 2003219888 A1 20031127

AI US 2002-157418 A1 20020528 (10)

RLI Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING

PRAI US 2002-359843P 20020225 (60)

US 2001-293566P 20010524 (60)

DT Utility

FS APPLICATION

LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,

IRVINE, CA, 92614
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 18632

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 59 OF 184 USPATFULL on STN
AN 2003:312259 USPATFULL
TI Secreted and transmembrane polypeptides and nucleic acids encoding the same
IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Klavin, Ivar J., Pacifica, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PA Genentech, Inc. (U.S. corporation)
PI US 2003219856 A1 20031127
AI US 2002-219538 A1 20020814 (10)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
Continuation of Ser. No. WO 2000-US8439, filed on 30 Mar 2000, PENDING
Continuation of Ser. No. WO 1999-US12252, filed on 2 Jun 1999, PENDING
PRAI US 1999-141037P 19990623 (60)
US 1998-92182P 19980709 (60)
DT Utility
FS APPLICATION
LREP Ginger R. Dreger, Knobbe Martens Olson & Bear, 16th Floor, 620 Newport Center Drive, Newport Beach, CA, 92660
CLMN Number of Claims: 118
ECL Exemplary Claim: 1
DRWN 330 Drawing Page(s)
LN.CNT 32340

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 60 OF 184 USPATFULL on STN
AN 2003:312155 USPATFULL
TI Novel antigen binding molecules for therapeutic, diagnostic,
prophylactic, enzymatic, industrial, and agricultural applications, and
methods for generating and screening thereof
IN Short, Jay M., Rancho Santa Fe, CA, UNITED STATES
PA Diversa Corporation, San Diego, CA, UNITED STATES, 92121 (U.S.
corporation)
PI US 2003219752 A1 20031127
AI US 2002-151469 A1 20020517 (10)
RLI Continuation-in-part of Ser. No. US 2000-535754, filed on 27 Mar 2000,
GRANTED, Pat. No. US 6361974 Continuation-in-part of Ser. No. US
2000-522289, filed on 9 Mar 2000, GRANTED, Pat. No. US 6358709
Continuation-in-part of Ser. No. US 2000-498557, filed on 4 Feb 2000,
ABANDONED Continuation-in-part of Ser. No. US 2000-495052, filed on 31
Jan 2000, GRANTED, Pat. No. US 6479258 Continuation-in-part of Ser. No.
US 1999-276860, filed on 26 Mar 1999, GRANTED, Pat. No. US 6352842
Continuation-in-part of Ser. No. US 1999-267118, filed on 9 Mar 1999,
GRANTED, Pat. No. US 6238884 Continuation-in-part of Ser. No. US
1999-246178, filed on 4 Feb 1999, GRANTED, Pat. No. US 6171820
Continuation of Ser. No. US 1998-185373, filed on 3 Nov 1998, GRANTED,
Pat. No. US 6335179 Continuation of Ser. No. US 1996-760489, filed on 5
Dec 1996, GRANTED, Pat. No. US 5830696 Continuation-in-part of Ser. No.
US 1996-677112, filed on 9 Jul 1996, GRANTED, Pat. No. US 5965408
Continuation-in-part of Ser. No. WO 2000-US16838, filed on 14 Jun 2000,
PENDING Continuation-in-part of Ser. No. WO 2000-US8245, filed on 27 Mar
2000, PENDING Continuation-in-part of Ser. No. WO 2000-US6497, filed on
9 Mar 2000, PENDING Continuation-in-part of Ser. No. US 2000-594459,
filed on 14 Jun 2000, PENDING Continuation-in-part of Ser. No. US
1999-332835, filed on 14 Jun 1999, GRANTED, Pat. No. US 6537776
Continuation-in-part of Ser. No. WO 2000-US3086, filed on 4 Feb 2000,
PENDING Continuation-in-part of Ser. No. US 2001-756459, filed on 8 Jan
2001, PENDING Continuation of Ser. No. US 1999-246178, filed on 4 Feb
1999, GRANTED, Pat. No. US 6171820 Continuation of Ser. No. US
1998-185373, filed on 3 Nov 1998, GRANTED, Pat. No. US 6335179
Continuation-in-part of Ser. No. US 1996-760489, filed on 5 Dec 1996,
GRANTED, Pat. No. US 5830696 Continuation-in-part of Ser. No. US
1999-376727, filed on 17 Aug 1999, GRANTED, Pat. No. US 6440668
Continuation of Ser. No. US 1996-677112, filed on 9 Jul 1996, GRANTED,
Pat. No. US 5965408 Continuation-in-part of Ser. No. WO 1998-US22596,
filed on 23 Oct 1998, PENDING Continuation-in-part of Ser. No. US
1999-214645, filed on 27 Sep 1999, PENDING A 371 of International Ser.
No. WO 1997-US12239, filed on 9 Jul 1997, PENDING Continuation-in-part
of Ser. No. US 2001-790321, filed on 21 Feb 2001, PENDING Division of
Ser. No. US 2000-687219, filed on 12 Oct 2000, PENDING
Continuation-in-part of Ser. No. US 2000-636778, filed on 11 Aug 2000,
PENDING Continuation of Ser. No. US 1998-98206, filed on 16 Jun 1998,
GRANTED, Pat. No. US 6174673 Continuation-in-part of Ser. No. US
2001-876276, filed on 7 Jun 2001, GRANTED, Pat. No. US 6468724
Continuation-in-part of Ser. No. US 2001-761559, filed on 16 Jan 2001,
PENDING Division of Ser. No. US 1998-98206, filed on 16 Jun 1998,
GRANTED, Pat. No. US 6174673 Continuation-in-part of Ser. No. US
1997-876276, filed on 16 Jun 1997, PENDING Continuation-in-part of Ser.
No. US 2001-848185, filed on 3 May 2001, PENDING Division of Ser. No. US
2000-636778, filed on 11 Aug 2000, PENDING Continuation of Ser. No. US
1998-98206, filed on 16 Jun 1998, GRANTED, Pat. No. US 6174673
Continuation-in-part of Ser. No. US 1997-876276, filed on 16 Jun 1997,
PENDING Continuation-in-part of Ser. No. US 2000-738871, filed on 15 Dec
2000, PENDING Continuation-in-part of Ser. No. US 2000-685432, filed on
10 Oct 2000, PENDING Continuation-in-part of Ser. No. US 1999-444112,
filed on 22 Nov 1999, PENDING Continuation-in-part of Ser. No. US
1998-98206, filed on 16 Jun 1998, GRANTED, Pat. No. US 6174673
Continuation-in-part of Ser. No. US 1997-876276, filed on 16 Jun 1997,
PENDING Continuation-in-part of Ser. No. WO 2000-US32208, filed on 22

Nov 2000, PENDING Continuation-in-part of Ser. No. WO 1998-US12674,
filed on 16 Jun 1998, PENDING

PRAI US 2001-300381P 20010517 (60)
US 2001-300907P 20010625 (60)
US 1995-8311P 19951207 (60)
US 1995-8316P 19951207 (60)
US 1995-8311P 19951207 (60)

DT Utility

FS APPLICATION

LREP FISH & RICHARDSON, PC, 4350 LA JOLLA VILLAGE DRIVE, SUITE 500, SAN DIEGO, CA, 92122

CLMN Number of Claims: 102

ECL Exemplary Claim: 1

DRWN 95 Drawing Page(s)

LN.CNT 23775

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention is directed to methods for generating sets, or libraries, of nucleic acids encoding antigen-binding sites, such as antibodies, antibody domains or other fragments, including single and double stranded antibodies, major histocompatibility complex (MHC) molecules, T cell receptors (TCRs), and the like. This invention provides methods for generating variant antigen binding sites, e.g., antibodies and specific domains or fragments of antibodies (e.g., Fab or Fc domains), by altering template nucleic acids including by saturation mutagenesis, synthetic ligation reassembly, or a combination thereof. In one aspect, invention provides methods for generating all human or humanized antibodies and evolving them to achieve optimized properties related to stability, duration, expression, production, enzymatic activity, affinity, avidity, localization, and other immunological properties. Polypeptides generated by these methods can be analyzed using a novel capillary array platform, which provides unprecedented ultra-high throughput screening.

L9 ANSWER 61 OF 184 USPATFULL on STN

AN 2003:311814 USPATFULL

TI Methods of making pharmaceutical compositions with minicells

IN Sabbadini, Roger A., Lakeside, CA, UNITED STATES

Klepper, Robert, San Diego, CA, UNITED STATES

PI US 2003219408 A1 20031127

AI US 2002-157320 A1 20020528 (10)

RLI Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING

PRAI US 2002-359843P 20020225 (60)

US 2001-293566P 20010524 (60)

DT Utility

FS APPLICATION

LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614

CLMN Number of Claims: 20

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 18632

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 62 OF 184 USPATFULL on STN

AN 2003:306369 USPATFULL

TI Human genes and gene expression products isolated from human prostate

IN Garcia, Pablo Dominguez, San Francisco, CA, UNITED STATES

Escobedo, Jaime, Alamo, CA, UNITED STATES

Kassam, Altaf, Oakland, CA, UNITED STATES

Lamson, George, Moraga, CA, UNITED STATES

Scott, Elizabeth, Petaluma, CA, UNITED STATES
Drmanac, Radoje, Palo Alto, CA, UNITED STATES
Crkvenjakov, Radomir, Sunnyvale, CA, UNITED STATES
Dickson, Mark, Hollister, CA, UNITED STATES
Drmanac, Snezana, Palo Alto, CA, UNITED STATES
Labat, Ivan, Mountain View, CA, UNITED STATES
Leshkowitz, Dena, Kiryat Hasavionim, ISRAEL
Kita, David, Milpitas, CA, UNITED STATES
Garcia, Veronica, Hayward, CA, UNITED STATES
Jones, Lee William, Hayward, CA, UNITED STATES
Stache-Crain, Birgit, Sunnyvale, CA, UNITED STATES

PI US 2003215803 A1 20031120
AI US 2001-12697 A1 20011207 (10)
PRAI US 2001-275688P 20010313 (60)
US 2000-254648P 20001207 (60)

DT Utility

FS APPLICATION

LREP BOZICEVIC, FIELD & FRANCIS LLP, 200 MIDDLEFIELD RD, SUITE 200, MENLO PARK, CA, 94025

CLMN Number of Claims: 26

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 11821

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to novel human polynucleotides and variants thereof, their encoded polypeptides and variants thereof, to genes corresponding to these polynucleotides and to proteins expressed by the genes. The invention also relates to diagnostics and therapeutics comprising such novel human polynucleotides, their corresponding genes or gene products, including probes, antisense nucleotides, and antibodies. The polynucleotides of the invention correspond to a polynucleotide comprising the sequence information of at least one of SEQ ID NOS: 1-1477. The polypeptides of the invention correspond to a polypeptide comprising the amino acid sequence information of at least one of SEQ ID NOS: 1478-1568.

L9 ANSWER 63 OF 184 USPATFULL on STN

AN 2003:300375 USPATFULL

TI Minicell-based delivery agents

IN Sabbadini, Roger A., Lakeside, CA, UNITED STATES

Klepper, Robert, San Diego, CA, UNITED STATES

Surber, Mark W., Coronado, CA, UNITED STATES

PI US 2003211599 A1 20031113

AI US 2002-157106 A1 20020528 (10)

RLI Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING

PRAI US 2002-359843P 20020225 (60)

US 2001-293566P 20010524 (60)

DT Utility

FS APPLICATION

LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614

CLMN Number of Claims: 12

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 18671

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 64 OF 184 USPATFULL on STN

AN 2003:299865 USPATFULL

TI Minicell-based selective absorption

IN Berkley, Neil, San Diego, CA, UNITED STATES
Sabbadini, Roger A., Lakeside, CA, UNITED STATES
PI US 2003211086 A1 20031113
AI US 2002-157073 A1 20020528 (10)
PRAI US 2001-295566P 20010605 (60)
US 2002-359843P 20020225 (60)
DT Utility
FS APPLICATION
LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,
IRVINE, CA, 92614
CLMN Number of Claims: 17
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 18553

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

L9 ANSWER 65 OF 184 USPATFULL on STN
AN 2003:294815 USPATFULL
TI Pharmaceutical compositions with minicells
IN Berkley, Neil, San Diego, CA, UNITED STATES
Klepper, Robert, San Diego, CA, UNITED STATES
Sabbadini, Roger A., Lakeside, CA, UNITED STATES
PI US 2003207833 A1 20031106
AI US 2002-156811 A1 20020528 (10)
PRAI US 2002-359843P 20020225 (60)
DT Utility
FS APPLICATION
LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,
IRVINE, CA, 92614
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 18585

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

L9 ANSWER 66 OF 184 USPATFULL on STN
AN 2003:294272 USPATFULL
TI Non-stochastic generation of genetic vaccines
IN Short, Jay M., Rancho Santa Fe, CA, UNITED STATES
PI US 2003207287 A1 20031106
AI US 2002-223507 A1 20020819 (10)
RLI Continuation of Ser. No. US 2000-495052, filed on 31 Jan 2000, GRANTED,
Pat. No. US 6479258 Continuation-in-part of Ser. No. US 1999-276860,
filed on 26 Mar 1999, GRANTED, Pat. No. US 6352842 Continuation-in-part
of Ser. No. US 1999-267118, filed on 9 Mar 1999, GRANTED, Pat. No. US
6238884 Continuation-in-part of Ser. No. US 1999-246178, filed on 4 Feb
1999, GRANTED, Pat. No. US 6171820 Continuation-in-part of Ser. No. US
1998-185373, filed on 3 Nov 1998, GRANTED, Pat. No. US 6335179
Continuation of Ser. No. US 1996-760489, filed on 5 Dec 1996, GRANTED,
Pat. No. US 5830696 Continuation-in-part of Ser. No. US 1996-677112,
filed on 9 Jul 1996, GRANTED, Pat. No. US 5965408
PRAI US 1995-8311P 19951207 (60)
US 1995-8316P 19951207 (60)
DT Utility
FS APPLICATION
LREP HALE AND DORR LLP, 300 PARK AVENUE, NEW YORK, NY, 10022

CLMN Number of Claims: 69

ECL Exemplary Claim: 1

DRWN 61 Drawing Page(s)

LN.CNT 20997

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides methods of obtaining vaccines by use of non-stochastic methods of directed evolution (DirectEvolution.TM.). These methods include non-stochastic polynucleotide site-saturation mutagenesis (Gene Site Saturation Mutagenesis.TM.) and non-stochastic polynucleotide reassembly (GeneReassembly.TM.). Through use of the claimed methods, vectors can be obtained which exhibit increased efficacy for use as genetic vaccines. Vectors obtained by using the methods can have, for example, enhanced antigen expression, increased uptake into a cell, increased stability in a cell, ability to tailor an immune response, and the like.

L9 ANSWER 67 OF 184 USPATFULL on STN

AN 2003:288723 USPATFULL

TI Conjugated minicells

IN Surber, Mark W., Coronado, CA, UNITED STATES

Klepper, Robert, San Diego, CA, UNITED STATES

PI US 2003203481 A1 20031030

AI US 2002-157213 A1 20020528 (10)

PRAI US 2002-359843P 20020225 (60)

DT Utility

FS APPLICATION

LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614

CLMN Number of Claims: 12

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 18551

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 68 OF 184 USPATFULL on STN

AN 2003:288653 USPATFULL

TI Methods of minicell-based delivery

IN Sabbadini, Roger A., Lakeside, CA, UNITED STATES

Berkley, Neil, San Diego, CA, UNITED STATES

Klepper, Robert, San Diego, CA, UNITED STATES

Surber, Mark W., Coronado, CA, UNITED STATES

PI US 2003203411 A1 20031030

AI US 2002-156792 A1 20020528 (10)

PRAI US 2001-295566P 20010605 (60)

US 2002-359843P 20020225 (60)

DT Utility

FS APPLICATION

LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614

CLMN Number of Claims: 20

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 18582

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 69 OF 184 USPATFULL on STN

AN 2003:288179 USPATFULL
TI Minicell-based diagnostics
IN Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Klepper, Robert, San Diego, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
PI US 2003202937 A1 20031030
AI US 2002-157178 A1 20020528 (10)
PRAI US 2001-295566P 20010605 (60)
US 2002-359843P 20020225 (60)
DT Utility
FS APPLICATION
LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,
IRVINE, CA, 92614
CLMN Number of Claims: 19
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 18527
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

L9 ANSWER 70 OF 184 USPATFULL on STN
AN 2003:282746 USPATFULL
TI Membrane to membrane delivery
IN Surber, Mark W., Coronado, CA, UNITED STATES
Sabbadini, Roger A., Lakeside, CA, UNITED STATES
PI US 2003199089 A1 20031023
AI US 2002-157318 A1 20020528 (10)
PRAI US 2001-295566P 20010605 (60)
US 2002-359843P 20020225 (60)
DT Utility
FS APPLICATION
LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,
IRVINE, CA, 92614
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 18530
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

L9 ANSWER 71 OF 184 USPATFULL on STN
AN 2003:282745 USPATFULL
TI Minicell-based gene therapy
IN Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Surber, Mark W., Coronado, CA, UNITED STATES
PI US 2003199088 A1 20031023
AI US 2002-156902 A1 20020528 (10)
PRAI US 2001-295566P 20010605 (60)
US 2002-359843P 20020225 (60)
DT Utility
FS APPLICATION
LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,
IRVINE, CA, 92614
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 15300

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 72 OF 184 USPATFULL on STN
AN 2003:282662 USPATFULL
TI Solid supports with minicells
IN Sabbadini, Roger, Lakeside, CA, UNITED STATES
Klepper, Robert, San Diego, CA, UNITED STATES
PI US 2003199005 A1 20031023
AI US 2002-157166 A1 20020528 (10)
RLI Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING
PRAI US 2002-359843P 20020225 (60)
US 2001-293566P 20010524 (60)
DT Utility
FS APPLICATION
LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,
IRVINE, CA, 92614
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 18494

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 73 OF 184 USPATFULL on STN
AN 2003:282653 USPATFULL
TI Minicell libraries
IN Surber, Mark W., Coronado, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Gerhart, William, La Mesa, CA, UNITED STATES
Sabbadini, Roger A., Lakeside, CA, UNITED STATES
PI US 2003198996 A1 20031023
AI US 2002-157147 A1 20020528 (10)
RLI Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING
PRAI US 2001-293566P 20010524 (60)
US 2002-359843P 20020225 (60)
DT Utility
FS APPLICATION
LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,
IRVINE, CA, 92614
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 18482

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 74 OF 184 USPATFULL on STN
AN 2003:282652 USPATFULL
TI Forward screening with minicells
IN Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Surber, Mark W., Coronado, CA, UNITED STATES
Gerhart, William, La Mesa, CA, UNITED STATES
PI US 2003198995 A1 20031023

AI US 2002-156831 A1 20020528 (10)
RLI Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING
PRAI US 2002-359843P 20020225 (60)
US 2001-293566P 20010524 (60)
DT Utility
FS APPLICATION
LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,
IRVINE, CA, 92614
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 18533

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

L9 ANSWER 75 OF 184 USPATFULL on STN
AN 2003:276773 USPATFULL
TI Minicell compositions and methods
IN Surber, Mark W., Coronado, CA, UNITED STATES
Sabbadini, Roger A., Lakeside, CA, UNITED STATES
PI US 2003194798 A1 20031016
AI US 2002-154951 A1 20020524 (10)
PRAI US 2001-293566P 20010524 (60)
US 2002-359843P 20020225 (60)
DT Utility
FS APPLICATION
LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,
IRVINE, CA, 92614
CLMN Number of Claims: 18
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 18583

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

L9 ANSWER 76 OF 184 USPATFULL on STN
AN 2003:276735 USPATFULL
TI Secreted and transmembrane polypeptides and nucleic acids encoding the
same
IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Klavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES

Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)
PI US 2003194760 A1 20031016
AI US 2001-991150 A1 20011116 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201
WO 1999-US30095 19991216
WO 1999-US30911 19990220
WO 2000-US219 20000105
WO 2000-US376 20000106
WO 2000-US3565 20000211
WO 2000-US4341 20000218
WO 2000-US4414 20000222
WO 2000-US4914 20000224
WO 2000-US5004 20000224
WO 2000-US5841 20000302
WO 2000-US6319 20000310
WO 2000-US6884 20000315
WO 2000-US7377 20000320
WO 2000-US8439 20000330
WO 2000-US13358 20000515
WO 2000-US14042 20000522
WO 2000-US15264 20000602
WO 2000-US13705 20000517
WO 2000-US14941 20000530
WO 2000-US20710 20000728
WO 2000-US22031 20000811
WO 2000-US23522 20000823
WO 2000-US23328 20000824
WO 2000-US30952 20001108
WO 2000-US32678 20001201
WO 2001-US6520 20010228
WO 2001-US17800 20010601
WO 2001-US19692 20010620
WO 2001-US21066 20010629
WO 2001-US21735 20010709
US 1997-49787P 19970616 (60)
US 1997-62250P 19971017 (60)
US 1997-65186P 19971112 (60)
US 1997-65311P 19971113 (60)
US 1997-66770P 19971124 (60)
US 1998-75945P 19980225 (60)
US 1998-78910P 19980320 (60)
US 1998-83322P 19980428 (60)
US 1998-84600P 19980507 (60)
US 1998-87106P 19980528 (60)
US 1998-87607P 19980602 (60)
US 1998-87609P 19980602 (60)

US 1998-87759P	19980602	(60)
US 1998-87827P	19980603	(60)
US 1998-88021P	19980604	(60)
US 1998-88025P	19980604	(60)
US 1998-88026P	19980604	(60)
US 1998-88028P	19980604	(60)
US 1998-88029P	19980604	(60)
US 1998-88030P	19980604	(60)
US 1998-88033P	19980604	(60)
US 1998-88326P	19980604	(60)
US 1998-88167P	19980605	(60)
US 1998-88202P	19980605	(60)
US 1998-88212P	19980605	(60)
US 1998-88217P	19980605	(60)
US 1998-88655P	19980609	(60)
US 1998-88734P	19980610	(60)
US 1998-88738P	19980610	(60)
US 1998-88742P	19980610	(60)
US 1998-88810P	19980610	(60)
US 1998-88824P	19980610	(60)
US 1998-88826P	19980610	(60)
US 1998-88858P	19980611	(60)
US 1998-88861P	19980611	(60)
US 1998-88876P	19980611	(60)
US 1998-89105P	19980612	(60)
US 1998-89440P	19980616	(60)
US 1998-89512P	19980616	(60)
US 1998-89514P	19980616	(60)
US 1998-89532P	19980617	(60)
US 1998-89538P	19980617	(60)
US 1998-89598P	19980617	(60)
US 1998-89599P	19980617	(60)
US 1998-89600P	19980617	(60)
US 1998-89653P	19980617	(60)
US 1998-89801P	19980618	(60)
US 1998-89907P	19980618	(60)
US 1998-89908P	19980618	(60)
US 1998-89947P	19980619	(60)
US 1998-89948P	19980619	(60)
US 1998-89952P	19980619	(60)
US 1998-90246P	19980622	(60)
US 1998-90252P	19980622	(60)
US 1998-90254P	19980622	(60)
US 1998-90349P	19980623	(60)
US 1998-90355P	19980623	(60)
US 1998-90429P	19980624	(60)
US 1998-90431P	19980624	(60)
US 1998-90435P	19980624	(60)
US 1998-90444P	19980624	(60)
US 1998-90445P	19980624	(60)
US 1998-90472P	19980624	(60)
US 1998-90535P	19980624	(60)
US 1998-90540P	19980624	(60)
US 1998-90542P	19980624	(60)
US 1998-90557P	19980624	(60)
US 1998-90676P	19980625	(60)
US 1998-90678P	19980625	(60)
US 1998-90690P	19980625	(60)
US 1998-90694P	19980625	(60)
US 1998-90695P	19980625	(60)
US 1998-90696P	19980625	(60)
US 1998-90862P	19980626	(60)
US 1998-90863P	19980626	(60)
US 1998-91360P	19980701	(60)

US 1998-91478P	19980702	(60)
US 1998-91544P	19980701	(60)
US 1998-91519P	19980702	(60)
US 1998-91626P	19980702	(60)
US 1998-91633P	19980702	(60)
US 1998-91628P	19980702	(60)
US 1998-91646P	19980702	(60)
US 1998-91673P	19980702	(60)
US 1998-91978P	19980707	(60)
US 1998-91982P	19980707	(60)
US 1998-92182P	19980709	(60)
US 1998-92472P	19980710	(60)
US 1998-93339P	19980720	(60)
US 1998-94651P	19980730	(60)
US 1998-95282P	19980804	(60)
US 1998-95285P	19980804	(60)
US 1998-95302P	19980804	(60)
US 1998-95318P	19980804	(60)
US 1998-95321P	19980804	(60)
US 1998-95301P	19980804	(60)
US 1998-95325P	19980804	(60)
US 1998-95916P	19980810	(60)
US 1998-95929P	19980810	(60)
US 1998-96012P	19980810	(60)
US 1998-96143P	19980811	(60)
US 1998-96146P	19980811	(60)
US 1998-96329P	19980812	(60)
US 1998-96757P	19980817	(60)
US 1998-96766P	19980817	(60)
US 1998-96768P	19980817	(60)
US 1998-96773P	19980817	(60)
US 1998-96791P	19980817	(60)
US 1998-96867P	19980817	(60)
US 1998-96891P	19980817	(60)
US 1998-96894P	19980817	(60)
US 1998-96895P	19980817	(60)
US 1998-96897P	19980817	(60)
US 1998-96949P	19980818	(60)
US 1998-96950P	19980818	(60)
US 1998-96959P	19980818	(60)
US 1998-96960P	19980818	(60)
US 1998-97022P	19980818	(60)
US 1998-97141P	19980819	(60)
US 1998-97218P	19980820	(60)
US 1998-97661P	19980824	(60)
US 1998-97952P	19980826	(60)
US 1998-97954P	19980826	(60)
US 1998-97955P	19980826	(60)
US 1998-98014P	19980826	(60)
US 1998-97971P	19980826	(60)
US 1998-97974P	19980826	(60)
US 1998-97978P	19980826	(60)
US 1998-97986P	19980826	(60)
US 1998-97979P	19980826	(60)
US 1998-98525P	19980831	(60)
US 1998-100634P	19980916	(60)
US 1998-100858P	19980917	(60)
US 1998-113296P	19981222	(60)
US 1999-123957P	19990312	(60)
US 1999-141037P	19990623	(60)
US 1999-143048P	19990707	(60)
US 1999-144758P	19990720	(60)
US 1999-145698P	19990726	(60)
US 1999-146222P	19990728	(60)

US 1999-149396P 19990817 (60)
US 1999-158663P 19991008 (60)
US 2000-213637P 20000623 (60)
US 2000-230978P 20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, WO, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32320

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 77 OF 184 USPATFULL on STN

AN 2003:276689 USPATFULL

TI Minicell-based transformation

IN Sabbadini, Roger A., Lakeside, CA, UNITED STATES

Berkley, Neil, San Diego, CA, UNITED STATES

Surber, Mark W., Coronado, CA, UNITED STATES

PI US 2003194714 A1 20031016

AI US 2002-157299 A1 20020528 (10)

PRAI US 2001-295566P 20010605 (60)

US 2002-359843P 20020225 (60)

DT Utility

FS APPLICATION

LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614

CLMN Number of Claims: 20

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 18595

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 78 OF 184 USPATFULL on STN

AN 2003:271146 USPATFULL

TI Minicell-producing parent cells

IN Surber, Mark W., Coronado, CA, UNITED STATES

Sabbadini, Roger A., Lakeside, CA, UNITED STATES

Segall, Anca M., San Diego, CA, UNITED STATES

Berkley, Neil, San Diego, CA, UNITED STATES

PI US 2003190749 A1 20031009

AI US 2002-157215 A1 20020528 (10)

RLI Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING

PRAI US 2002-359843P 20020225 (60)

US 2001-293566P 20010524 (60)

DT Utility

FS APPLICATION

LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614

CLMN Number of Claims: 20

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 18577

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 79 OF 184 USPATFULL on STN
AN 2003:271080 USPATFULL
TI Minicell-based rational drug design
IN Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Surber, Mark W., Coronado, CA, UNITED STATES
PI US 2003190683 A1 20031009
AI US 2002-157302 A1 20020528 (10)
RLI Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING
PRAI US 2002-359843P 20020225 (60)
US 2001-293566P 20010524 (60)
DT Utility
FS APPLICATION
LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,
IRVINE, CA, 92614
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 18539

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 80 OF 184 USPATFULL on STN
AN 2003:270998 USPATFULL
TI Target display on minicells
IN Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Surber, Mark W., Coronada, CA, UNITED STATES
PI US 2003190601 A1 20031009
AI US 2002-157096 A1 20020528 (10)
RLI Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING
PRAI US 2002-359843P 20020225 (60)
US 2001-293566P 20010524 (60)
DT Utility
FS APPLICATION
LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,
IRVINE, CA, 92614
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 18581

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 81 OF 184 USPATFULL on STN
AN 2003:265362 USPATFULL
TI T-bet compositions and methods of use thereof
IN Glimcher, Laurie H., West Newton, MA, UNITED STATES
Szabo, Susanne J., Brookline, MA, UNITED STATES
PA President and Fellows of Harvard College, Cambridge, MA (U.S.
corporation)
PI US 2003186377 A1 20031002
AI US 2002-309747 A1 20021203 (10)

RLI Continuation-in-part of Ser. No. US 2001-8264, filed on 3 Dec 2001,
PENDING Continuation-in-part of Ser. No. WO 2000-US15345, filed on 1 Jun
2000, PENDING
PRAI US 1999-137085P 19990602 (60)
DT Utility
FS APPLICATION
LREP LAHIVE & COCKFIELD, 28 STATE STREET, BOSTON, MA, 02109
CLMN Number of Claims: 256
ECL Exemplary Claim: 1
DRWN 50 Drawing Page(s)
LN.CNT 8154

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Isolated nucleic acid molecules encoding T-bet, and isolated T-bet polypeptides, are provided. The invention further provides antisense nucleic acid molecules, recombinant expression vectors containing a nucleic acid molecule of the invention, host cells into which the expression vectors have been introduced and non-human transgenic animals carrying a T-bet transgene. The invention further provides T-bet fusion proteins and anti-T-bet antibodies. Methods of using the T-bet compositions of the invention are also disclosed, including methods for detecting T-bet expression and/or activity in a biological sample, methods of modulating T-bet expression and/or activity in a cell, and methods for identifying agents that modulate the expression and/or activity of T-bet.

L9 ANSWER 82 OF 184 USPATFULL on STN
AN 2003:238122 USPATFULL
TI Minicell-based transfection
IN Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
PI US 2003166279 A1 20030904
AI US 2002-157391 A1 20020528 (10)
RLI Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING
PRAI US 2002-359843P 20020225 (60)
US 2001-293566P 20010524 (60)

DT Utility
FS APPLICATION

LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,
IRVINE, CA, 92614
CLMN Number of Claims: 18
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 18548

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 83 OF 184 USPATFULL on STN
AN 2003:237942 USPATFULL
TI Minicells comprising membrane proteins
IN Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Surber, Mark W., Coronado, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Segall, Anca M., San Diego, CA, UNITED STATES
Klepper, Robert, San Diego, CA, UNITED STATES
PI US 2003166099 A1 20030904
AI US 2002-157305 A1 20020528 (10)
PRAI US 2001-295566P 20010605 (60)
US 2002-359843P 20020225 (60)

DT Utility
FS APPLICATION

LREP KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR,
IRVINE, CA, 92614

CLMN Number of Claims: 20

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 18580

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

L9 ANSWER 84 OF 184 USPATFULL on STN

AN 2003:220740 USPATFULL

TI Methods and compositions for diagnosing and treating rheumatoid arthritis

IN Pittman, Debra D., Windham, NH, UNITED STATES
Feldman, Jeffrey L., Arlington, MA, UNITED STATES
Shields, Kathleen M., Harvard, MA, UNITED STATES
Trepicchio, William L., Andover, MA, UNITED STATES

PI US 2003154032 A1 20030814

AI US 2001-23451 A1 20011217 (10)

PRAI US 2000-255861P 20001215 (60)

DT Utility

FS APPLICATION

LREP Patent Group, FOLEY, HOAG & ELIOT LLP, One Post Office Square, Boston, MA, 02109

CLMN Number of Claims: 40

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 25385

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods and compositions for diagnostic assays for detecting R.A. and therapeutic methods and compositions for treating R.A. The invention also provides methods for designing, identifying, and optimizing therapeutics for R.A. Diagnostic compositions of the invention include compositions comprising detection agents for detecting one or more genes that have been shown to be up- or down-regulated in cells of R.A. relative to normal counterpart cells. Exemplary detection agents include nucleic acid probes, which can be in solution or attached to a solid surface, e.g., in the form of a microarray. The invention also provides computer-readable media comprising values of levels of expression of one or more genes that are up- or down-regulated in R.A.

L9 ANSWER 85 OF 184 USPATFULL on STN

AN 2003:219631 USPATFULL

TI Full-length human cDNAs encoding potentially secreted proteins

IN Dumas Milne Edwards, Jean-Baptiste, Paris, FRANCE
Bougueret, Lydie, Petit Lancy, SWITZERLAND
Jobert, Severin, Paris, FRANCE

PI US 2003152921 A1 20030814

US 7060479 B2 20060613

AI US 2001-876997 A1 20010608 (9)

RLI Continuation-in-part of Ser. No. US 2000-731872, filed on 7 Dec 2000, PENDING

PRAI US 1999-169629P 19991208 (60)
US 2000-187470P 20000306 (60)

DT Utility

FS APPLICATION

LREP Frank C. Eisenschenk, Ph.D., SALIWANCHIK, LLOYD & SALIWANCHIK, 2421 N.W. 41 STREET, SUITE A-1, GAINESVILLE, FL, 32606-6669

CLMN Number of Claims: 22

ECL Exemplary Claim: 1

DRWN 5 Drawing Page(s)

LN.CNT 27600

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention concerns GENSET polynucleotides and polypeptides. Such GENSET products may be used as reagents in forensic analyses, as chromosome markers, as tissue/cell/organelle-specific markers, in the production of expression vectors. In addition, they may be used in screening and diagnosis assays for abnormal GENSET expression and/or biological activity and for screening compounds that may be used in the treatment of GENSET-related disorders.

L9 ANSWER 86 OF 184 USPATFULL on STN

AN 2003:219294 USPATFULL

TI Abundant extracellular products and methods for their production and use

IN Horwitz, Marcus A., Los Angeles, CA, UNITED STATES

PI US 2003152584 A1 20030814

AI US 2002-147255 A1 20020515 (10)

RLI Continuation of Ser. No. US 1999-226539, filed on 6 Jan 1999, ABANDONED
Continuation of Ser. No. US 1998-157689, filed on 21 Sep 1998, PENDING
Continuation-in-part of Ser. No. US 1996-652842, filed on 23 May 1996, ABANDONED
Continuation-in-part of Ser. No. US 1996-568357, filed on 6 Dec 1996, ABANDONED
Continuation of Ser. No. US 1995-551149, filed on 31 Oct 1995, ABANDONED
Continuation-in-part of Ser. No. US 1995-447398, filed on 23 May 1995, PENDING
Continuation-in-part of Ser. No. US 1994-289667, filed on 12 Aug 1994, ABANDONED
Continuation-in-part of Ser. No. US 1993-156358, filed on 23 Nov 1993, PENDING

DT Utility

FS APPLICATION

LREP ATTN: Louis C. Cullman, OPPENHEIMER WOLFF & DONNELLY LLP, Suite 700, 840 Newport Center Drive, Newport Beach, CA, 92660

CLMN Number of Claims: 46

ECL Exemplary Claim: 1

DRWN 12 Drawing Page(s)

LN.CNT 4269

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irrespective of their absolute molecular immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their respective N-terminal amino acid or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compositions are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

L9 ANSWER 87 OF 184 USPATFULL on STN

AN 2003:201343 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES

Baker, Kevin P., Darnestown, MD, UNITED STATES

Botstein, David, Belmont, CA, UNITED STATES

Desnoyers, Luc, San Francisco, CA, UNITED STATES

Eaton, Dan L., San Rafael, CA, UNITED STATES

Ferrara, Napoleone, San Francisco, CA, UNITED STATES

Fong, Sherman, Alameda, CA, UNITED STATES

Gerber, Hanspeter, San Francisco, CA, UNITED STATES

Gerritsen, Mary E., San Mateo, CA, UNITED STATES

Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)
PI US 2003139329 A1 20030724
AI US 2001-989725 A1 20011120 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
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WO 1999-US21090 19990915
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WO 1999-US30095 19991216
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WO 2000-US14941 20000530
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US 1997-49787P 19970616 (60)
US 1997-62250P 19971017 (60)

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US 1998-97022P	19980818	(60)
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US 1998-97218P	19980820	(60)
US 1998-97661P	19980824	(60)
US 1998-97952P	19980826	(60)
US 1998-97954P	19980826	(60)
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US 1998-97971P	19980826	(60)
US 1998-97974P	19980826	(60)
US 1998-97978P	19980826	(60)
US 1998-97986P	19980826	(60)
US 1998-97979P	19980826	(60)

US 1998-98525P	19980831 (60)
US 1998-100634P	19980916 (60)
US 1998-100858P	19980917 (60)
US 1998-113296P	19981222 (60)
US 1999-123957P	19990312 (60)
US 1999-141037P	19990623 (60)
US 1999-143048P	19990707 (60)
US 1999-144758P	19990720 (60)
US 1999-145698P	19990726 (60)
US 1999-146222P	19990728 (60)
US 1999-149396P	19990817 (60)
US 1999-158663P	19991008 (60)
US 2000-213637P	20000623 (60)
US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, WO, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32313

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 88 OF 184 USPATFULL on STN

AN 2003:200810 USPATFULL

TI Polynucleotide encoding a novel human growth factor with homology to epidermal growth factor, BGS-8, expressed highly in immune tissue

IN Wu, Shujian, Langhorne, PA, UNITED STATES

Lee, Liana M., North Brunswick, NJ, UNITED STATES
Feder, John N., Belle Mead, NJ, UNITED STATES

PI US 2003138795 A1 20030724

AI US 2002-173461 A1 20020614 (10)

PRAI US 2001-298340P 20010614 (60)

DT Utility

FS APPLICATION

LREP STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000

CLMN Number of Claims: 19

ECL Exemplary Claim: 1

DRWN 11 Drawing Page(s)

LN.CNT 13042

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel polynucleotides encoding BGS-8 polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel BGS-8 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

L9 ANSWER 89 OF 184 USPATFULL on STN

AN 2003:194473 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
 Baker, Kevin P., Darnestown, MD, UNITED STATES
 Botstein, David, Belmont, CA, UNITED STATES
 Desnoyers, Luc, San Francisco, CA, UNITED STATES
 Eaton, Dan L., San Fafael, CA, UNITED STATES
 Ferrara, Napoleone, San Francisco, CA, UNITED STATES
 Fong, Sherman, Alameda, CA, UNITED STATES
 Gerber, Hanspeter, San Francisco, CA, UNITED STATES
 Gerritsen, Mary E., San Mateo, CA, UNITED STATES
 Goddard, Audrey, San Francisco, CA, UNITED STATES
 Godowski, Paul J., Hillsborough, CA, UNITED STATES
 Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
 Gurney, Austin L., Belmont, CA, UNITED STATES
 Kljavin, Ivar J., Lafayette, CA, UNITED STATES
 Napier, Mary A., Hillsborough, CA, UNITED STATES
 Pan, James, Belmont, CA, UNITED STATES
 Paoni, Nicholas F., Belmont, CA, UNITED STATES
 Roy, Margaret Ann, San Francisco, CA, UNITED STATES
 Stewart, Timothy A., San Francisco, CA, UNITED STATES
 Tumas, Daniel, Orinda, CA, UNITED STATES
 Watanabe, Colin K., Moraga, CA, UNITED STATES
 Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
 Wood, William I., Hillsborough, CA, UNITED STATES
 Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)

PI US 2003134284 A1 20030717

AI US 2001-997529 A1 20011115 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

PRAI WO 1997-US20069 19971105
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 WO 1998-US19437 19980917
 WO 1998-US21141 19981007
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 WO 1999-US30095 19991216
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 WO 2000-US219 20000105
 WO 2000-US376 20000106
 WO 2000-US3565 20000211
 WO 2000-US4341 20000218
 WO 2000-US4414 20000222
 WO 2000-US4914 20000224
 WO 2000-US5004 20000224
 WO 2000-US5841 20000302
 WO 2000-US6319 20000310
 WO 2000-US6884 20000315
 WO 2000-US7377 20000320
 WO 2000-US8439 20000330
 WO 2000-US13358 20000515
 WO 2000-US14042 20000522
 WO 2000-US15264 20000602
 WO 2000-US13705 20000517
 WO 2000-US14941 20000530
 WO 2000-US20710 20000728
 WO 2000-US22031 20000811
 WO 2000-US23522 20000823
 WO 2000-US23328 20000824

WO 2000-US30952	20001108
WO 2000-US32678	20001201
WO 2001-US6520	20010228
WO 2001-US17800	20010601
WO 2001-US19692	20010620
WO 2001-US21066	20010629
WO 2001-US21735	20010709
US 1997-49787P	19970616 (60)
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US 1997-65186P	19971112 (60)
US 1997-65311P	19971113 (60)
US 1997-66770P	19971124 (60)
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US 1998-88030P	19980604 (60)
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US 1998-88824P	19980610 (60)
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US 1998-97141P	19980819 (60)
US 1998-97218P	19980820 (60)
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US 1998-97954P	19980826 (60)
US 1998-97955P	19980826 (60)
US 1998-98014P	19980826 (60)
US 1998-97971P	19980826 (60)
US 1998-97974P	19980826 (60)
US 1998-97978P	19980826 (60)
US 1998-97986P	19980826 (60)
US 1998-97979P	19980826 (60)
US 1998-98525P	19980831 (60)
US 1998-100634P	19980916 (60)
US 1998-100858P	19980917 (60)
US 1998-113296P	19981222 (60)
US 1999-123957P	19990312 (60)
US 1999-141037P	19990623 (60)
US 1999-143048P	19990707 (60)
US 1999-144758P	19990720 (60)
US 1999-145698P	19990726 (60)
US 1999-146222P	19990728 (60)
US 1999-149396P	19990817 (60)
US 1999-158663P	19991008 (60)
US 2000-213637P	20000623 (60)
US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32341

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 90 OF 184 USPATFULL on STN

AN 2003:188692 USPATFULL

TI Novel human genes and methods of use thereof

IN Meyers, Rachel E., Newton, MA, UNITED STATES

Curtis, Rory A. J., Framingham, MA, UNITED STATES

Glucksmann, Maria Alexandra, Lexington, MA, UNITED STATES

Bandaru, Rajasekhar, Watertown, MA, UNITED STATES

Kapeller-Libermann, Rosana, Chestnut Hill, MA, UNITED STATES

PI US 2003130485 A1 20030710

AI US 2002-176306 A1 20020620 (10)

RLI Continuation-in-part of Ser. No. US 2001-1137, filed on 14 Nov 2001, PENDING Continuation-in-part of Ser. No. WO 2001-US45291, filed on 14 Nov 2001, PENDING

PRAI WO 2001-US49416 20011218

WO 2001-US46717 20011022

US 2000-248362P 20001114 (60)

US 2000-248331P 20001114 (60)

US 2000-248365P 20001114 (60)

US 2000-250077P 20001130 (60)

US 2000-250327P 20001130 (60)

US 2000-250176P 20001130 (60)

DT Utility

FS APPLICATION

LREP LOUIS MYERS, Fish & Richardson P.C., 225 Franklin Street, Boston, MA, 02110-2804

CLMN Number of Claims: 19

ECL Exemplary Claim: 1
DRWN 60 Drawing Page(s)
LN.CNT 26835

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated nucleic acids molecules, designated 47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234, 21617, 55562, 23566, 33489, and 57779 nucleic acid molecules, which encode novel human genes. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234, 21617, 55562, 23566, 33489, or 57779 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which a 47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234, 21617, 55562, 23566, 33489, or 57779 gene has been introduced or disrupted. The invention still further provides isolated 47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234, 21617, 55562, 23566, 33489, or 57779 proteins, fusion proteins, antigenic peptides and anti-47476, 67210, 49875, 46842, 33201, 83378, 84233, 64708, 85041, 84234, 21617, 55562, 23566, 33489, or 57779 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

L9 ANSWER 91 OF 184 USPATFULL on STN

AN 2003:188389 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)

PI US 2003130182 A1 20030710

AI US 2001-989862 A1 20011119 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915

WO 1999-US28313	19991130
WO 1999-US28301	19991201
WO 1999-US28634	19991201
WO 1999-US30095	19991216
WO 1999-US30911	19990220
WO 2000-US219	20000105
WO 2000-US376	20000106
WO 2000-US3565	20000211
WO 2000-US4341	20000218
WO 2000-US4414	20000222
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WO 2000-US5841	20000302
WO 2000-US6319	20000310
WO 2000-US6884	20000315
WO 2000-US7377	20000320
WO 2000-US8439	20000330
WO 2000-US13358	20000515
WO 2000-US14042	20000522
WO 2000-US15264	20000602
WO 2000-US13705	20000517
WO 2000-US14941	20000530
WO 2000-US20710	20000728
WO 2000-US22031	20000811
WO 2000-US23522	20000823
WO 2000-US23328	20000824
WO 2000-US30952	20001108
WO 2000-US32678	20001201
WO 2001-US6520	20010228
WO 2001-US17800	20010601
WO 2001-US19692	20010620
WO 2001-US21066	20010629
WO 2001-US21735	20010709

DT Utility
FS APPLICATION

LREP Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32284

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 92 OF 184 USPATFULL on STN

AN 2003:180702 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES

Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)
PI US 2003124531 A1 20030703
AI US 2001-997614 A1 20011115 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
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WO 2001-US21735 20010709
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US 1998-97955P	19980826	(60)
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US 1998-97978P	19980826	(60)
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US 1998-100858P 19980917 (60)
US 1998-113296P 19981222 (60)
US 1999-123957P 19990312 (60)
US 1999-141037P 19990623 (60)
US 1999-143048P 19990707 (60)
US 1999-144758P 19990720 (60)
US 1999-145698P 19990726 (60)
US 1999-146222P 19990728 (60)
US 1999-149396P 19990817 (60)
US 1999-158663P 19991008 (60)
US 2000-213637P 20000623 (60)
US 2000-230978P 20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, WO, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32317

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 93 OF 184 USPATFULL on STN

AN 2003:173211 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)

PI US 2003119055 A1 20030626

AI US 2001-997585 A1 20011115 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

PRAI WO 1997-US20069 19971105

WO 1998-US19330 19980916

WO 1998-US19437 19980917

WO 1998-US21141	19981007
WO 1998-US25108	19981201
WO 1999-US106	19990105
WO 1999-US5028	19990308
WO 1999-US12252	19990602
WO 1999-US21090	19990915
WO 1999-US21547	19990915
WO 1999-US28313	19991130
WO 1999-US28301	19991201
WO 1999-US28634	19991201
WO 1999-US30095	19991216
WO 1999-US30911	19990220
WO 2000-US219	20000105
WO 2000-US376	20000106
WO 2000-US3565	20000211
WO 2000-US4341	20000218
WO 2000-US4414	20000222
WO 2000-US4914	20000224
WO 2000-US5004	20000224
WO 2000-US5841	20000302
WO 2000-US6319	20000310
WO 2000-US6884	20000315
WO 2000-US7377	20000320
WO 2000-US8439	20000330
WO 2000-US13358	20000515
WO 2000-US14042	20000522
WO 2000-US15264	20000602
WO 2000-US13705	20000517
WO 2000-US14941	20000530
WO 2000-US20710	20000728
WO 2000-US22031	20000811
WO 2000-US23522	20000823
WO 2000-US23328	20000824
WO 2000-US30952	20001108
WO 2000-US32678	20001201
WO 2001-US6520	20010228
WO 2001-US17800	20010601
WO 2001-US19692	20010620
WO 2001-US21066	20010629
WO 2001-US21735	20010709
US 1997-49787P	19970616 (60)
US 1997-62250P	19971017 (60)
US 1997-65186P	19971112 (60)
US 1997-65311P	19971113 (60)
US 1997-66770P	19971124 (60)
US 1998-75945P	19980225 (60)
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US 1998-88738P	19980610	(60)
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US 1998-89801P	19980618	(60)
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US 1998-89952P	19980619	(60)
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US 1998-91646P	19980702	(60)
US 1998-91673P	19980702	(60)
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US 1999-145698P	19990726 (60)
US 1999-146222P	19990728 (60)
US 1999-149396P	19990817 (60)
US 1999-158663P	19991008 (60)
US 2000-213637P	20000623 (60)
US 2000-230978P	20000907 (60)

DT

Utility

FS

APPLICATION

LREP

BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN

Number of Claims: 118

ECL

Exemplary Claim: 1

DRWN

330 Drawing Page(s)

LN.CNT 32510

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 94 OF 184 USPATFULL on STN
AN 2003:173157 USPATFULL
TI Secreted and transmembrane polypeptides and nucleic acids encoding the same
IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PA Genentech, Inc. (U.S. corporation)
PI US 2003119001 A1 20030626
AI US 2001-998041 A1 20011115 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
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US 1999-146222P	19990728 (60)
US 1999-149396P	19990817 (60)
US 1999-158663P	19991008 (60)
US 2000-213637P	20000623 (60)
US 2000-230978P	20000907 (60)

DT

Utility

FS

APPLICATION

LREP

BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN

Number of Claims: 118

ECL

Exemplary Claim: 1

DRWN

330 Drawing Page(s)

LN.CNT 24760

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 95 OF 184 USPATFULL on STN

AN 2003:152862 USPATFULL

TI T-bet compositions and methods of use thereof

IN Glimcher, Laurie H., West Newton, MA, UNITED STATES

Szabo, Susanne J., Brookline, MA, UNITED STATES

PI US 2003104528 A1 20030605

AI US 2001-8264 A1 20011203 (10)

RLI Continuation-in-part of Ser. No. WO 2000-US15345, filed on 1 Jun 2000, PENDING

PRAI US 1999-137085P 19990602 (60)

DT Utility

FS APPLICATION

LREP LAHIVE & COCKFIELD, 28 STATE STREET, BOSTON, MA, 02109

CLMN Number of Claims: 49

ECL Exemplary Claim: 1
DRWN 27 Drawing Page(s)
LN.CNT 4217

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Isolated nucleic acid molecules encoding T-bet, and isolated T-bet proteins, are provided. The invention further provides antisense nucleic acid molecules, recombinant expression vectors containing a nucleic acid molecule of the invention, host cells into which the expression vectors have been introduced and non-human transgenic animals carrying a T-bet transgene. The invention further provides T-bet fusion proteins and anti-T-bet antibodies. Methods of using the T-bet compositions of the invention are also disclosed, including methods for detecting T-bet activity in a biological sample, methods of modulating T-bet activity in a cell, and methods for identifying agents that modulate the activity of T-bet.

L9 ANSWER 96 OF 184 USPATFULL on STN

AN 2003:145924 USPATFULL

TI Packaging of immunostimulatory substances into virus-like particles: method of preparation and use

IN Bachmann, Martin, Winterthur, SWITZERLAND
Storni, Tazio, Viganello, SWITZERLAND
Maurer, Patrik, Winterthur, SWITZERLAND
Tissot, Alain, Zurich, SWITZERLAND
Schwarz, Katrin, Schlieren, SWITZERLAND
Meijerink, Edwin, Zurich, SWITZERLAND
Lipowsky, Gerd, Zurich, SWITZERLAND
Pumpens, Paul, Riga, LATVIA
Cielens, Indulis, Riga, LATVIA
Renhofa, Regina, Riga, LATVIA

PA Cytos Biotechnology AG (non-U.S. corporation)

PI US 2003099668 A1 20030529

AI US 2002-244065 A1 20020916 (10)

PRAI US 2001-318994P 20010914 (60)
US 2002-374145P 20020422 (60)

DT Utility

FS APPLICATION

LREP STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK AVENUE, N.W., SUITE 600, WASHINGTON, DC, 20005-3934

CLMN Number of Claims: 207

ECL Exemplary Claim: 1

DRWN 60 Drawing Page(s)

LN.CNT 7907

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to the finding that virus like particles (VLPs) can be loaded with immunostimulatory substances, in particular with DNA oligonucleotides containing non-methylated C and G (CpGs). Such CpG-VLPs are dramatically more immunogenic than their CpG-free counterparts and induce enhanced B and T cell responses. The immune response against antigens optionally coupled, fused or attached otherwise to the VLPs is similarly enhanced as the immune response against the VLP itself. In addition, the T cell responses against both the VLPs and antigens are especially directed to the Th1 type. Antigens attached to CpG-loaded VLPs may therefore be ideal vaccines for prophylactic or therapeutic vaccination against allergies, tumors and other self-molecules and chronic viral diseases.

L9 ANSWER 97 OF 184 USPATFULL on STN

AN 2003:127093 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES

Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)
PI US 2003087305 A1 20030508
AI US 2001-997384 A1 20011115 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201
WO 1999-US30095 19991216
WO 1999-US30911 19991220
WO 2000-US219 20000105
WO 2000-US376 20000106
WO 2000-US3565 20000211
WO 2000-US4341 20000218
WO 2000-US4414 20000222
WO 2000-US4914 20000224
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WO 2000-US5841 20000302
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WO 2000-US15264 20000602
WO 2000-US13705 20000517
WO 2000-US14941 20000530
WO 2000-US20710 20000728
WO 2000-US22031 20000811
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US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32324

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 98 OF 184 USPATFULL on STN

AN 2003:127092 USPATFULL

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Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
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RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
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US	1999-158663P	19991008	(60)
US	2000-213637P	20000623	(60)
US	2000-230978P	20000907	(60)

DT

Utility

FS APPLICATION
LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610
CLMN Number of Claims: 118
ECL Exemplary Claim: 1
DRWN 330 Drawing Page(s)
LN.CNT 32267

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 99 OF 184 USPATFULL on STN
AN 2003:120977 USPATFULL
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Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
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US 2000-213637P	20000623 (60)
US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 31815

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L9 ANSWER 100 OF 184 USPATFULL on STN

AN 2003:120063 USPATFULL

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PA GENENTECH, INC. (U.S. corporation)
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US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

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IRVINE, CA, 92614

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32347

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

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IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
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PA Genentech, Inc. (U.S. corporation)
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DT Utility

FS APPLICATION

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CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32252

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 102 OF 184 USPATFULL on STN

AN 2003:112861 USPATFULL

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US 2000-230978P 20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32495

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 103 OF 184 USPATFULL on STN

AN 2003:106896 USPATFULL

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Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
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Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
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PI US 2003073809 A1 20030417

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RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

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DT

Utility

FS

APPLICATION

LREP

BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN

Number of Claims: 118

ECL

Exemplary Claim: 1

DRWN

330 Drawing Page(s)

LN.CNT 32032

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 104 OF 184 USPATFULL on STN
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US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 31979

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 105 OF 184 USPATFULL on STN

AN 2003:100292 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
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Kljavin, Ivar J., Lafayette, CA, UNITED STATES
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 Roy, Margaret Ann, San Francisco, CA, UNITED STATES
 Stewart, Timothy A., San Francisco, CA, UNITED STATES
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 Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
 Wood, William I., Hillsborough, CA, UNITED STATES
 Zhang, Zemin, Foster City, CA, UNITED STATES

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RLI	Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING	
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US 2000-213637P 20000623 (60)
US 2000-230978P 20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32308

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 106 OF 184 USPATFULL on STN

AN 2003:99542 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
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Gerritsen, Mary E., San Mateo, CA, UNITED STATES
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Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)

PI US 2003068647 A1 20030410

AI US 2001-997542 A1 20011115 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

PRAI WO 1997-US20069 19971105
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DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32327

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for

producing the polypeptides of the present invention.

L9 ANSWER 107 OF 184 USPATFULL on STN
AN 2003:99518 USPATFULL
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Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
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Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PA Genentech, Inc. (U.S. corporation)
PI US 2003068623 A1 20030410
AI US 2001-993469 A1 20011114 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
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US 1999-146222P	19990728 (60)
US 1999-149396P	19990817 (60)
US 1999-158663P	19991008 (60)
US 2000-213637P	20000623 (60)
US 2000-230978P	20000907 (60)

DT

Utility

FS

APPLICATION

LREP

BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN

Number of Claims: 118

ECL

Exemplary Claim: 1

DRWN

330 Drawing Page(s)

LN.CNT 32291

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 108 OF 184 USPATFULL on STN

AN 2003:93795 USPATFULL

TI Novel human genes and gene expression products I

IN Williams, Lewis T., Mill Valley, CA, UNITED STATES

Escobedo, Jaime, Alamo, CA, UNITED STATES

Innis, Michael A., Moraga, CA, UNITED STATES

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Stache-Crain, Birgit, Sunnyvale, CA, UNITED STATES
PI US 2003065156 A1 20030403
AI US 2002-76555 A1 20020215 (10)
RLI Continuation of Ser. No. US 1998-217471, filed on 21 Dec 1998, PENDING
PRAI US 1997-68755P 19971223 (60)
US 1998-80664P 19980403 (60)
US 1998-105234P 19981021 (60)
DT Utility
FS APPLICATION
LREP BOZICEVIC, FIELD & FRANCIS LLP, 200 MIDDLEFIELD RD, SUITE 200, MENLO PARK, CA, 94025
CLMN Number of Claims: 22
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 15408
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention relates to novel human polynucleotides and variants thereof, their encoded polypeptides and variants thereof, to genes corresponding to these polynucleotides and to proteins expressed by the genes. The invention also relates to diagnostic and therapeutic agents employing such novel human polynucleotides, their corresponding genes or gene products, e.g., these genes and proteins, including probes, antisense constructs, and antibodies.
L9 ANSWER 109 OF 184 USPATFULL on STN
AN 2003:93016 USPATFULL
TI Secreted and transmembrane polypeptides and nucleic acids encoding the same
IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
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Gerber, Hanspeter, San Francisco, CA, UNITED STATES
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Gurney, Austin L., Belmont, CA, UNITED STATES
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Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
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Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PA Genentech, Inc. (U.S. corporation)
PI US 2003064375 A1 20030403
AI US 2001-997857 A1 20011115 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
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US 2000-230978P	20000907 (60)

DT

Utility

FS

APPLICATION

LREP

BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN

Number of Claims: 118

ECL

Exemplary Claim: 1

DRWN

330 Drawing Page(s)

LN.CNT 32270

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 110 OF 184 USPATFULL on STN

AN 2003:86799 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
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Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)

PI US 2003060407 A1 20030327

AI US 2001-990440 A1 20011114 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

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US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32295

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 111 OF 184 USPATFULL on STN

AN 2003:86228 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

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 PA Genentech, Inc. (U.S. corporation)
 PI US 2003059833 A1 20030327
 AI US 2001-997440 A1 20011115 (9)
 RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
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DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32459

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L9 ANSWER 112 OF 184 USPATFULL on STN

AN 2003:86227 USPATFULL

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PI US 2003059832 A1 20030327

US 7034106 B2 20060425

AI US 2001-997349 A1 20011115 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

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US 2000-230978P	20000907	(60)

DT

Utility

FS

APPLICATION

LREP

BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN

Number of Claims: 118

ECL

Exemplary Claim: 1

DRWN

330 Drawing Page(s)

LN.CNT 32400

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 113 OF 184 USPATFULL on STN

AN 2003:86226 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
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Godowski, Paul J., Hillsborough, CA, UNITED STATES
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Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

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PI US 2003059831 A1 20030327

AI US 2001-989729 A1 20011119 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

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US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32321

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 114 OF 184 USPATFULL on STN

AN 2003:86178 USPATFULL

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IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
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Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
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Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)
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US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32286

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 115 OF 184 USPATFULL on STN

AN 2003:86177 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)

PI US 2003059782 A1 20030327

AI US 2001-997628 A1 20011115 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

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US 1999-158663P	19991008	(60)
US 2000-213637P	20000623	(60)
US 2000-230978P	20000907	(60)

DT

Utility

FS

APPLICATION

LREP

BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN

Number of Claims: 118

ECL

Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32343

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 116 OF 184 USPATFULL on STN

AN 2003:86175 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, CA, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
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Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)

PI US 2003059780 A1 20030327

AI US 2001-991854 A1 20011114 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

PRAI WO 1997-US20069 19971105
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US 2000-213637P	20000623 (60)
US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32391

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 117 OF 184 USPATFULL on STN

AN 2003:79062 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

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Baker, Kevin P., Darnestown, MD, UNITED STATES

Botstein, David, Belmont, CA, UNITED STATES

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Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)
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DT

Utility

FS

APPLICATION

LREP

BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN

Number of Claims: 118

ECL

Exemplary Claim: 1

DRWN

330 Drawing Page(s)

LN.CNT 31833

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 118 OF 184 USPATFULL on STN

AN 2003:78484 USPATFULL

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Baker, Kevin P., Darnestown, MD, UNITED STATES
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PI US 2003054404 A1 20030320

AI US 2001-997601 A1 20011115 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
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US 2000-230978P	20000907	(60)

DT

Utility

FS

APPLICATION

LREP

BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN

Number of Claims: 118

ECL Exemplary Claim: 1
DRWN 330 Drawing Page(s)
LN.CNT 32296

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 119 OF 184 USPATFULL on STN

AN 2003:78483 USPATFULL

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PA Genentech, Inc. (U.S. corporation)

PI US 2003054403 A1 20030320

AI US 2001-997559 A1 20011115 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

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US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32339

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 120 OF 184 USPATFULL on STN

AN 2003:78439 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES

Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
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Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
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Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)
PI US 2003054359 A1 20030320
AI US 2001-990726 A1 20011114 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
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US 2000-213637P	20000623 (60)
US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32019

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 121 OF 184 USPATFULL on STN

AN 2003:72170 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
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Godowski, Paul J., Hillsborough, CA, UNITED STATES
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Roy, Margaret Ann, San Francisco, CA, UNITED STATES
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Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PA Genentech, Inc. (U.S. corporation)
PI US 2003050457 A1 20030313

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PRAI	WO 1997-US20069	19971105
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US	2000-213637P	20000623	(60)
US	2000-230978P	20000907	(60)

DT

Utility

FS

APPLICATION

LREP

BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 31844

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 122 OF 184 USPATFULL on STN

AN 2003:71397 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES

Baker, Kevin P., Darnestown, MD, UNITED STATES

Botstein, David, Belmont, CA, UNITED STATES

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Eaton, Dan L., San Rafael, CA, UNITED STATES

Ferrara, Napoleone, San Francisco, CA, UNITED STATES

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Gerber, Hanspeter, San Francisco, CA, UNITED STATES

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PA Genentech, Inc. (U.S. corporation)

PI US 2003049682 A1 20030313

AI US 2001-997573 A1 20011115 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

PRAI WO 1997-US20069 19971105

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US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32295

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 123 OF 184 USPATFULL on STN

AN 2003:71396 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

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PI US 2003049681 A1 20030313
US 7019116 B2 20060328
AI US 2001-997514 A1 20011115 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
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DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32353

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L9 ANSWER 124 OF 184 USPATFULL on STN

AN 2003:71353 USPATFULL

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DT Utility
FS APPLICATION
LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610
CLMN Number of Claims: 118
ECL Exemplary Claim: 1
DRWN 330 Drawing Page(s)
LN.CNT 32318

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 125 OF 184 USPATFULL on STN
AN 2003:65339 USPATFULL
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Botstein, David, Belmont, CA, UNITED STATES
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Godowski, Paul J., Hillsborough, CA, UNITED STATES
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Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
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PI US 2003045463 A1 20030306
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RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
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US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32389

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 126 OF 184 USPATFULL on STN

AN 2003:64685 USPATFULL

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Zhang, Zemin, Foster City, CA, UNITED STATES

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AI US 2001-998156 A1 20011115 (9)
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US 1999-149396P 19990817 (60)
US 1999-158663P 19991008 (60)
US 2000-213637P 20000623 (60)
US 2000-230978P 20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32287

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 127 OF 184 USPATFULL on STN

AN 2003:64662 USPATFULL

TI Human genes and gene expression products

IN Williams, Lewis T., Mill Valley, CA, UNITED STATES

Escobedo, Jaime, Alamo, CA, UNITED STATES

Innis, Michael A., UNITED STATES

Garcia, Pablo Dominguez, San Francisco, CA, UNITED STATES

Sudduth-Klinger, Julie, Kensington, CA, UNITED STATES

Reinhard, Christoph, Alameda, CA, UNITED STATES

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Kennedy, Giulia C., San Francisco, CA, UNITED STATES

Pot, David, Arlington, VA, UNITED STATES

Kassam, Altaf, Oakland, CA, UNITED STATES

Lamson, George, Moraga, CA, UNITED STATES

Drmanac, Radjoe, Palo Alto, CA, UNITED STATES

Dickson, Mark, Hollister, CA, UNITED STATES

Labat, Ivan, Mountain View, CA, UNITED STATES

Jones, Lee William, Sunnyvale, CA, UNITED STATES

Stache-Crain, Birgit, Sunnyvale, CA, UNITED STATES

PI US 2003044783 A1 20030306

AI US 2001-803719 A1 20010309 (9)

PRAI US 2000-188609P 20000309 (60)

DT Utility

FS APPLICATION

LREP Chiron Corporation Intellectual Property -R440, PO Box 8097, Emeryville, CA, 94662-8097

CLMN Number of Claims: 15

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 23459

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to novel human polynucleotides and variants thereof, their encoded polypeptides and variants thereof, to genes corresponding to these polynucleotides and to proteins expressed by the genes. The invention also relates to diagnostic and therapeutic agents employing such novel human polynucleotides, their corresponding genes or gene products, e.g., these genes and proteins, including probes, antisense constructs, and antibodies.

L9 ANSWER 128 OF 184 USPATFULL on STN

AN 2003:57907 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Forster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)

PI US 2003040473 A1 20030227

US 7018811 B2 20060328

AI US 2001-989726 A1 20011119 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

PRAI WO 1997-US20069 19971105

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WO 1998-US25108 19981201

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WO 2000-US219 20000105

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US 1999-149396P	19990817 (60)
US 1999-158663P	19991008 (60)
US 2000-213637P	20000623 (60)
US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 31800

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 129 OF 184 USPATFULL on STN

AN 2003:44713 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES

Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)
PI US 2003032023 A1 20030213
AI US 2001-990711 A1 20011114 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
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WO 2000-US23522 20000823
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US 2000-213637P	20000623 (60)
US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32302

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 130 OF 184 USPATFULL on STN

AN 2003:38338 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
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PA GENENTECH, INC. (U.S. corporation)
PI US 2003027985 A1 20030206
AI US 2001-990562 A1 20011114 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
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US 2000-230978P	20000907	(60)

DT

Utility

FS APPLICATION
LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610
CLMN Number of Claims: 118
ECL Exemplary Claim: 1
DRWN 330 Drawing Page(s)
LN.CNT 32419

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 131 OF 184 USPATFULL on STN
AN 2003:38107 USPATFULL
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AI US 2001-990438 A1 20011114 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
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DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 31866

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L9 ANSWER 132 OF 184 USPATFULL on STN

AN 2003:37518 USPATFULL

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US 1999-158663P	19991008 (60)
US 2000-213637P	20000623 (60)
US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32436

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 133 OF 184 USPATFULL on STN

AN 2003:37517 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
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Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
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Strwart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES

Zhang, Zemin, Foster City, CA, UNITED STATES
Genentech, Inc. (U.S. corporation)
PA US 2003027162 A1 20030206
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AI US 2001-997428 A1 20011115 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
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DT Utility
FS APPLICATION
LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610
CLMN Number of Claims: 118
ECL Exemplary Claim: 1
DRWN 330 Drawing Page(s)
LN.CNT 25160

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 134 OF 184 USPATFULL on STN
AN 2003:30240 USPATFULL
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Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
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US 1999-158663P	19991008 (60)
US 2000-213637P	20000623 (60)
US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32028

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 135 OF 184 USPATFULL on STN

AN 2003:24139 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same
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Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
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Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PA Genentech, Inc. (U.S. corporation)
PI US 2003017982 A1 20030123
US 7041804 B2 20060509
AI US 2001-990441 A1 20011116 (9)
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US 1999-143048P	19990707 (60)
US 1999-144758P	19990720 (60)
US 1999-145698P	19990726 (60)
US 1999-146222P	19990728 (60)
US 1999-149396P	19990817 (60)
US 1999-158663P	19991008 (60)
US 2000-213637P	20000623 (60)
US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32324

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 136 OF 184 USPATFULL on STN

AN 2003:24138 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES

Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)
PI US 2003017981 A1 20030123
US 7029873 B2 20060418
AI US 2001-989728 A1 20011120 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201
WO 1999-US30095 19991216
WO 1999-US30911 19990220
WO 2000-US219 20000105
WO 2000-US376 20000106
WO 2000-US3565 20000211
WO 2000-US4341 20000218
WO 2000-US4414 20000222
WO 2000-US4914 20000224
WO 2000-US5004 20000224
WO 2000-US5841 20000302
WO 2000-US6319 20000310
WO 2000-US6884 20000315
WO 2000-US7377 20000320
WO 2000-US8439 20000330
WO 2000-US13358 20000515
WO 2000-US14042 20000522
WO 2000-US15264 20000602
WO 2000-US13705 20000517
WO 2000-US14941 20000530
WO 2000-US20710 20000728
WO 2000-US22031 20000811
WO 2000-US23522 20000823
WO 2000-US23328 20000824
WO 2000-US30952 20001108
WO 2000-US32678 20001201
WO 2001-US6520 20010228
WO 2001-US17800 20010601
WO 2001-US19692 20010620
WO 2001-US21066 20010629
WO 2001-US21735 20010709
US 1997-49787P 19970616 (60)
US 1997-62250P 19971017 (60)
US 1997-65186P 19971112 (60)
US 1997-65311P 19971113 (60)
US 1997-66770P 19971124 (60)
US 1998-75945P 19980225 (60)
US 1998-78910P 19980320 (60)
US 1998-83322P 19980428 (60)
US 1998-84600P 19980507 (60)
US 1998-87106P 19980528 (60)

US 2000-213637P 20000623 (60)
US 2000-230978P 20000907 (60)

DT

Utility

FS

APPLICATION

LREP

BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN

Number of Claims: 118

ECL

Exemplary Claim: 1

DRWN

330 Drawing Page(s)

LN.CNT

32233

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB

The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 137 OF 184 USPATFULL on STN

AN 2003:23636 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN

Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA

Genentech, Inc. (U.S. corporation)

PI

US 2003017476 A1 20030123
US 7060812 B2 20060613

AI

US 2001-989724 A1 20011120 (9)

RLI

Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

PRAI

WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201

US 1998-95929P	19980810 (60)
US 1998-96012P	19980810 (60)
US 1998-96143P	19980811 (60)
US 1998-96146P	19980811 (60)
US 1998-96329P	19980812 (60)
US 1998-96757P	19980817 (60)
US 1998-96766P	19980817 (60)
US 1998-96768P	19980817 (60)
US 1998-96773P	19980817 (60)
US 1998-96791P	19980817 (60)
US 1998-96867P	19980817 (60)
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US 1998-96894P	19980817 (60)
US 1998-96895P	19980817 (60)
US 1998-96897P	19980817 (60)
US 1998-96949P	19980818 (60)
US 1998-96950P	19980818 (60)
US 1998-96959P	19980818 (60)
US 1998-96960P	19980818 (60)
US 1998-97022P	19980818 (60)
US 1998-97141P	19980819 (60)
US 1998-97218P	19980820 (60)
US 1998-97661P	19980824 (60)
US 1998-97952P	19980826 (60)
US 1998-97954P	19980826 (60)
US 1998-97955P	19980826 (60)
US 1998-98014P	19980826 (60)
US 1998-97971P	19980826 (60)
US 1998-97974P	19980826 (60)
US 1998-97978P	19980826 (60)
US 1998-97986P	19980826 (60)
US 1998-97979P	19980826 (60)
US 1998-98525P	19980831 (60)
US 1998-100634P	19980916 (60)
US 1998-100858P	19980917 (60)
US 1998-113296P	19981222 (60)
US 1999-123957P	19990312 (60)
US 1999-141037P	19990623 (60)
US 1999-143048P	19990707 (60)
US 1999-144758P	19990720 (60)
US 1999-145698P	19990726 (60)
US 1999-146222P	19990728 (60)
US 1999-149396P	19990817 (60)
US 1999-158663P	19991008 (60)
US 2000-213637P	20000623 (60)
US 2000-230978P	20000907 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32431

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 138 OF 184 USPATFULL on STN
AN 2003:10602 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same
IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PA Genentech, Inc. (U.S. corporation)
PI US 2003008297 A1 20030109
US 7034122 B2 20060425
AI US 2001-997653 A1 20011115 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201
WO 1999-US30095 19991216
WO 1999-US30911 19991220
WO 2000-US219 20000105
WO 2000-US376 20000106
WO 2000-US3565 20000211
WO 2000-US4341 20000218
WO 2000-US4414 20000222
WO 2000-US4914 20000224
WO 2000-US5004 20000224
WO 2000-US5841 20000302
WO 2000-US6319 20000310
WO 2000-US6884 20000315
WO 2000-US7377 20000320
WO 2000-US8439 20000330
WO 2000-US13358 20000515
WO 2000-US14042 20000522
WO 2000-US15264 20000602
WO 2000-US13705 20000517
WO 2000-US14941 20000530
WO 2000-US20710 20000728

WO 2000-US22031	20000811
WO 2000-US23522	20000823
WO 2000-US23328	20000824
WO 2000-US30952	20001108
WO 2000-US32678	20001201
WO 2001-US6520	20010228
WO 2001-US17800	20010601
WO 2001-US19692	20010620
WO 2001-US21066	20010629
WO 2001-US21735	20010709
US 1997-49787P	19970616 (60)
US 1997-62250P	19971017 (60)
US 1997-65186P	19971112 (60)
US 1997-65311P	19971113 (60)
US 1997-66770P	19971124 (60)
US 1998-75945P	19980225 (60)
US 1998-78910P	19980320 (60)
US 1998-83322P	19980428 (60)
US 1998-84600P	19980507 (60)
US 1998-87106P	19980528 (60)
US 1998-87607P	19980602 (60)
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US 1998-87759P	19980602 (60)
US 1998-87827P	19980603 (60)
US 1998-88021P	19980604 (60)
US 1998-88025P	19980604 (60)
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US 1998-88326P	19980604 (60)
US 1998-88167P	19980605 (60)
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US 1998-88212P	19980605 (60)
US 1998-88217P	19980605 (60)
US 1998-88655P	19980609 (60)
US 1998-88734P	19980610 (60)
US 1998-88738P	19980610 (60)
US 1998-88742P	19980610 (60)
US 1998-88810P	19980610 (60)
US 1998-88824P	19980610 (60)
US 1998-88826P	19980610 (60)
US 1998-88858P	19980611 (60)
US 1998-88861P	19980611 (60)
US 1998-88876P	19980611 (60)
US 1998-89105P	19980612 (60)
US 1998-89440P	19980616 (60)
US 1998-89512P	19980616 (60)
US 1998-89514P	19980616 (60)
US 1998-89532P	19980617 (60)
US 1998-89538P	19980617 (60)
US 1998-89598P	19980617 (60)
US 1998-89599P	19980617 (60)
US 1998-89600P	19980617 (60)
US 1998-89653P	19980617 (60)
US 1998-89801P	19980618 (60)
US 1998-89907P	19980618 (60)
US 1998-89908P	19980618 (60)

DT Utility
FS APPLICATION
LREP Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599
CLMN Number of Claims: 118

ECL Exemplary Claim: 1
DRWN 330 Drawing Page(s)
LN.CNT 31808

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 139 OF 184 USPATFULL on STN

AN 2003:3496 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Klavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)

PI US 2003003531 A1 20030102

AI US 2001-989734 A1 20011119 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

PRAI WO 1997-US20069 19971105

WO 1998-US19330 19980916

WO 1998-US19437 19980917

WO 1998-US21141 19981007

WO 1998-US25108 19981201

WO 1999-US106 19990105

WO 1999-US5028 19990308

WO 1999-US12252 19990602

WO 1999-US21090 19990915

WO 1999-US21547 19990915

WO 1999-US28313 19991130

WO 1999-US28301 19991201

WO 1999-US28634 19991201

WO 1999-US30095 19991216

WO 1999-US30911 19991220

WO 2000-US219 20000105

WO 2000-US376 20000106

WO 2000-US3565 20000211

WO 2000-US4341 20000218

WO 2000-US4414 20000222

US 1998-89538P 19980617 (60)
US 1998-89598P 19980617 (60)
US 1998-89599P 19980617 (60)
US 1998-89600P 19980617 (60)
US 1998-89653P 19980617 (60)
US 1998-89801P 19980618 (60)
US 1998-89907P 19980618 (60)
US 1998-89908P 19980618 (60)

DT Utility

FS APPLICATION

LREP Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32038

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 140 OF 184 USPATFULL on STN

AN 2003:203138 USPATFULL

TI Abundant extracellular products and methods for their production and use

IN Horwitz, Marcus A., Los Angeles, CA, United States

Harth, Gunter, Los Angeles, CA, United States

PA The Regents of the University of California, Oakland, CA, United States (U.S. corporation)

PI US 6599510 B1 20030729

AI US 1998-157689 19980921 (9)

RLI Continuation of Ser. No. US 1996-652842, filed on 23 May 1996, now abandoned Continuation-in-part of Ser. No. US 1995-568357, filed on 6 Dec 1995, now abandoned Continuation-in-part of Ser. No. US 1995-551149, filed on 31 Oct 1995, now abandoned Continuation-in-part of Ser. No. US 1995-447398, filed on 23 May 1995 Continuation-in-part of Ser. No. US 1994-289667, filed on 12 Aug 1994, now abandoned Continuation-in-part of Ser. No. US 1993-156358, filed on 23 Nov 1993

DT Utility

FS GRANTED

EXNAM Primary Examiner: Swartz, Rodney P

LREP Cullman, Louis C.

CLMN Number of Claims: 6

ECL Exemplary Claim: 1

DRWN 17 Drawing Figure(s); 12 Drawing Page(s)

LN.CNT 4023

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Vaccines based on one or more combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irrespective of their absolute molecular immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their respective N-terminal amino acid, amino acid, or DNA sequences. As the vaccines may comprise different combinations of the extracellular products, subunits thereof, or encoding nucleic acids, a broad range of effective immunotherapeutic compositions are provided by the

present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

L9 ANSWER 141 OF 184 USPATFULL on STN
AN 2003:40533 USPATFULL
TI Methods for the inhibition of epstein-barr virus transmission employing anti-viral peptides capable of abrogating viral fusion and transmission
IN Barney, Shawn O'Lin, Cary, NC, United States
Lambert, Dennis Michael, Cary, NC, United States
Petteway, Stephen Robert, Cary, NC, United States
PA Trimeris, Inc., Durham, NC, United States (U.S. corporation)
PI US 6518013 B1 20030211
AI US 1995-485546 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994, now patented, Pat. No. US 6017536 Continuation-in-part of Ser. No. US 1994-255208, filed on 7 Jun 1994 Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993, now patented, Pat. No. US 5464933
DT Utility
FS GRANTED
EXNAM Primary Examiner: Scheiner, Laurie; Assistant Examiner: Parkin, Jeffrey S.
LREP Pennie & Edmonds LLP, Nelson, M. Bud
CLMN Number of Claims: 22
ECL Exemplary Claim: 1
DRWN 84 Drawing Figure(s); 83 Drawing Page(s)
LN.CNT 24700
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Fusion of the viral envelope, or infected cell membranes with uninfected cell membranes, is an essential step in the viral life cycle. Recent studies involving the human immunodeficiency virus type 1(HIV-1) demonstrated that synthetic peptides (designated DP-107 and DP-178) derived from potential helical regions of the transmembrane (TM) protein, gp41, were potent inhibitors of viral fusion and infection. A computerized antiviral searching technology (C.A.S.T.) that detects related structural motifs (e.g., ALLMOTI 5, 107+178+4, and PLZIP) in other viral proteins was employed to identify similar regions in the Epstein-Barr virus (EBV). Several conserved heptad repeat domains that are predicted to form coiled-coil structures with antiviral activity were identified in the EBV genome. Synthetic peptides of 16 to 39 amino acids derived from these regions were prepared and their antiviral activities assessed in a suitable in vitro screening assay. These peptides proved to be potent inhibitors of EBV fusion. Based upon their structural and functional equivalence to the known HIV-1 inhibitors DP-107 and DP-178, these peptides should provide a novel approach to the development of targeted therapies for the treatment of EBV infections.

L9 ANSWER 142 OF 184 USPATFULL on STN
AN 2002:344419 USPATFULL
TI Secreted and transmembrane polypeptides and nucleic acids encoding the same
IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES

Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)
PI US 2002198149 A1 20021226
AI US 2001-993687 A1 20011114 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201
WO 1999-US30095 19991216
WO 1999-US30911 19990220
WO 2000-US219 20000105
WO 2000-US376 20000106
WO 2000-US3565 20000211
WO 2000-US4341 20000218
WO 2000-US4414 20000222
WO 2000-US4914 20000224
WO 2000-US5004 20000224
WO 2000-US5841 20000302
WO 2000-US6319 20000310
WO 2000-US6884 20000315
WO 2000-US7377 20000320
WO 2000-US8439 20000330
WO 2000-US13358 20000515
WO 2000-US14042 20000522
WO 2000-US15264 20000602
WO 2000-US13705 20000517
WO 2000-US14941 20000530
WO 2000-US20710 20000728
WO 2000-US22031 20000811
WO 2000-US23522 20000823
WO 2000-US23328 20000824
WO 2000-US30952 20001108
WO 2000-US32678 20001201
WO 2001-US6520 20010228
WO 2001-US17800 20010601
WO 2001-US19692 20010620
WO 2001-US21066 20010629
WO 2001-US21735 20010709
US 1997-49787P 19970616 (60)
US 1997-62250P 19971017 (60)
US 1997-65186P 19971112 (60)
US 1997-65311P 19971113 (60)

US 1997-66770P	19971124 (60)
US 1998-75945P	19980225 (60)
US 1998-78910P	19980320 (60)
US 1998-83322P	19980428 (60)
US 1998-84600P	19980507 (60)
US 1998-87106P	19980528 (60)
US 1998-87607P	19980602 (60)
US 1998-87609P	19980602 (60)
US 1998-87759P	19980602 (60)
US 1998-87827P	19980603 (60)
US 1998-88021P	19980604 (60)
US 1998-88025P	19980604 (60)
US 1998-88026P	19980604 (60)
US 1998-88028P	19980604 (60)
US 1998-88029P	19980604 (60)
US 1998-88030P	19980604 (60)
US 1998-88033P	19980604 (60)
US 1998-88326P	19980604 (60)
US 1998-88167P	19980605 (60)
US 1998-88202P	19980605 (60)
US 1998-88212P	19980605 (60)
US 1998-88217P	19980605 (60)
US 1998-88655P	19980609 (60)
US 1998-88734P	19980610 (60)
US 1998-88738P	19980610 (60)
US 1998-88742P	19980610 (60)
US 1998-88810P	19980610 (60)
US 1998-88824P	19980610 (60)
US 1998-88826P	19980610 (60)
US 1998-88858P	19980611 (60)
US 1998-88861P	19980611 (60)
US 1998-88876P	19980611 (60)
US 1998-89105P	19980612 (60)
US 1998-89440P	19980616 (60)
US 1998-89512P	19980616 (60)
US 1998-89514P	19980616 (60)
US 1998-89532P	19980617 (60)
US 1998-89538P	19980617 (60)
US 1998-89598P	19980617 (60)
US 1998-89599P	19980617 (60)
US 1998-89600P	19980617 (60)
US 1998-89653P	19980617 (60)
US 1998-89801P	19980618 (60)
US 1998-89907P	19980618 (60)
US 1998-89908P	19980618 (60)

DT Utility

FS APPLICATION

LREP Paul E. Rauch, Ph. D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32579

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 143 OF 184 USPATFULL on STN
AN 2002:344418 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same
IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PA Genentech, Inc. (U.S. corporation)
PI US 2002198148 A1 20021226
AI US 2001-990436 A1 20011114 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201
WO 1999-US30095 19991216
WO 1999-US30911 19991220
WO 2000-US219 20000105
WO 2000-US376 20000106
WO 2000-US3565 20000211
WO 2000-US4341 20000218
WO 2000-US4414 20000222
WO 2000-US4914 20000224
WO 2000-US5004 20000224
WO 2000-US5841 20000302
WO 2000-US6319 20000310
WO 2000-US6884 20000315
WO 2000-US7377 20000320
WO 2000-US8439 20000330
WO 2000-US13358 20000515
WO 2000-US14042 20000522
WO 2000-US15264 20000602
WO 2000-US13705 20000517
WO 2000-US14941 20000530
WO 2000-US20710 20000728
WO 2000-US22031 20000811

LN.CNT 32299

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 144 OF 184 USPATFULL on STN

AN 2002:343948 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)

PI US 2002197674 A1 20021226

AI US 2001-989730 A1 20011120 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201
WO 1999-US30095 19991216
WO 1999-US30911 19990220
WO 2000-US219 20000105
WO 2000-US376 20000106
WO 2000-US3565 20000211
WO 2000-US4341 20000218
WO 2000-US4414 20000222
WO 2000-US4914 20000224
WO 2000-US5004 20000224

US 1998-89599P 19980617 (60)
US 1998-89600P 19980617 (60)
US 1998-89653P 19980617 (60)
US 1998-89801P 19980618 (60)
US 1998-89907P 19980618 (60)
US 1998-89908P 19980618 (60)

DT Utility

FS APPLICATION

LREP Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32283

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 145 OF 184 USPATFULL on STN

AN 2002:343889 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanespeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)

PI US 2002197615 A1 20021226
US 6913919 B2 20050705

AI US 2001-991181 A1 20011116 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602

US 1998-88742P	19980610 (60)
US 1998-88810P	19980610 (60)
US 1998-88824P	19980610 (60)
US 1998-88826P	19980610 (60)
US 1998-88858P	19980611 (60)
US 1998-88861P	19980611 (60)
US 1998-88876P	19980611 (60)
US 1998-89105P	19980612 (60)
US 1998-89440P	19980616 (60)
US 1998-89512P	19980616 (60)
US 1998-89514P	19980616 (60)
US 1998-89532P	19980617 (60)
US 1998-89538P	19980617 (60)
US 1998-89598P	19980617 (60)
US 1998-89599P	19980617 (60)
US 1998-89600P	19980617 (60)
US 1998-89653P	19980617 (60)
US 1998-89801P	19980618 (60)
US 1998-89907P	19980618 (60)
US 1998-89908P	19980618 (60)

DT Utility

FS APPLICATION

LREP Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 31855

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 146 OF 184 USPATFULL on STN

AN 2002:337935 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES

Zhang, Zemin, Foster City, CA, UNITED STATES
 PA Genentech, Inc. (U.S. corporation)
 PI US 2002193300 A1 20021219
 US 6930170 B2 20050816
 AI US 2001-990444 A1 20011114 (9)
 RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
 PRAI WO 1997-US20069 19971105
 WO 1998-US19330 19980916
 WO 1998-US19437 19980917
 WO 1998-US21141 19981007
 WO 1998-US25108 19981201
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 WO 1999-US28301 19991201
 WO 1999-US28634 19991201
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 WO 2000-US376 20000106
 WO 2000-US3565 20000211
 WO 2000-US4341 20000218
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 WO 2000-US4914 20000224
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 WO 2000-US5841 20000302
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 WO 2000-US6884 20000315
 WO 2000-US7377 20000320
 WO 2000-US8439 20000330
 WO 2000-US13358 20000515
 WO 2000-US14042 20000522
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 WO 2000-US13705 20000517
 WO 2000-US14941 20000530
 WO 2000-US20710 20000728
 WO 2000-US22031 20000811
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 WO 2000-US23328 20000824
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 WO 2000-US32678 20001201
 WO 2001-US6520 20010228
 WO 2001-US17800 20010601
 WO 2001-US19692 20010620
 WO 2001-US21066 20010629
 WO 2001-US21735 20010709
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US 1998-88028P	19980604 (60)
US 1998-88029P	19980604 (60)
US 1998-88030P	19980604 (60)
US 1998-88033P	19980604 (60)
US 1998-88326P	19980604 (60)
US 1998-88167P	19980605 (60)
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US 1998-88212P	19980605 (60)
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US 1998-88655P	19980609 (60)
US 1998-88734P	19980610 (60)
US 1998-88738P	19980610 (60)
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US 1998-88876P	19980611 (60)
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US 1998-89512P	19980616 (60)
US 1998-89514P	19980616 (60)
US 1998-89532P	19980617 (60)
US 1998-89538P	19980617 (60)
US 1998-89598P	19980617 (60)
US 1998-89599P	19980617 (60)
US 1998-89600P	19980617 (60)
US 1998-89653P	19980617 (60)
US 1998-89801P	19980618 (60)
US 1998-89907P	19980618 (60)
US 1998-89908P	19980618 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32345

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 147 OF 184 USPATFULL on STN

AN 2002:337934 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES

Baker, Kevin P., Darnestown, MD, UNITED STATES

Botstein, David, Belmont, CA, UNITED STATES

Desnoyers, Luc, San Francisco, CA, UNITED STATES

Eaton, Dan L., San Rafael, CA, UNITED STATES

Ferrara, Napoleone, San Francisco, CA, UNITED STATES

Fong, Sherman, Alameda, CA, UNITED STATES

Gerber, Hanspeter, San Francisco, CA, UNITED STATES

Gerritsen, Mary E., San Mateo, CA, UNITED STATES

Goddard, Audrey, San Francisco, CA, UNITED STATES

Godowski, Paul J., Hillsborough, CA, UNITED STATES
 Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
 Gurney, Austin L., Belmont, CA, UNITED STATES
 Kljavin, Ivar J., Lafayette, CA, UNITED STATES
 Napier, Mary A., Hillsborough, CA, UNITED STATES
 Pan, James, Belmont, CA, UNITED STATES
 Paoni, Nicholas F., Belmont, CA, UNITED STATES
 Roy, Margaret Ann, San Francisco, CA, UNITED STATES
 Stewart, Timothy A., San Francisco, CA, UNITED STATES
 Tumas, Daniel, Orinda, CA, UNITED STATES
 Watanabe, Colin K., Moraga, CA, UNITED STATES
 Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
 Wood, William I., Hillsborough, CA, UNITED STATES
 Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)
 PI US 2002193299 A1 20021219
 US 6972185 B2 20051206
 AI US 2001-989735 A1 20011119 (9)
 RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
 PRAI WO 1997-US20069 19971105
 WO 1998-US19330 19980916
 WO 1998-US19437 19980917
 WO 1998-US21141 19981007
 WO 1998-US25108 19981201
 WO 1999-US106 19990105
 WO 1999-US5028 19990308
 WO 1999-US12252 19990602
 WO 1999-US21090 19990915
 WO 1999-US21547 19990915
 WO 1999-US28313 19991130
 WO 1999-US28301 19991201
 WO 1999-US28634 19991201
 WO 1999-US30095 19991216
 WO 1999-US30911 19990220
 WO 2000-US219 20000105
 WO 2000-US376 20000106
 WO 2000-US3565 20000211
 WO 2000-US4341 20000218
 WO 2000-US4414 20000222
 WO 2000-US4914 20000224
 WO 2000-US5004 20000224
 WO 2000-US5841 20000302
 WO 2000-US6319 20000310
 WO 2000-US6884 20000315
 WO 2000-US7377 20000320
 WO 2000-US8439 20000330
 WO 2000-US13358 20000515
 WO 2000-US14042 20000522
 WO 2000-US15264 20000602
 WO 2000-US13705 20000517
 WO 2000-US14941 20000530
 WO 2000-US20710 20000728
 WO 2000-US22031 20000811
 WO 2000-US23522 20000823
 WO 2000-US23328 20000824
 WO 2000-US30952 20001108
 WO 2000-US32678 20001201
 WO 2001-US6520 20010228
 WO 2001-US17800 20010601
 WO 2001-US19692 20010620
 WO 2001-US21066 20010629
 WO 2001-US21735 20010709
 US 1997-49787P 19970616 (60)
 US 1997-62250P 19971017 (60)

US 1997-65186P	19971112 (60)
US 1997-65311P	19971113 (60)
US 1997-66770P	19971124 (60)
US 1998-75945P	19980225 (60)
US 1998-78910P	19980320 (60)
US 1998-83322P	19980428 (60)
US 1998-84600P	19980507 (60)
US 1998-87106P	19980528 (60)
US 1998-87607P	19980602 (60)
US 1998-87609P	19980602 (60)
US 1998-87759P	19980602 (60)
US 1998-87827P	19980603 (60)
US 1998-88021P	19980604 (60)
US 1998-88025P	19980604 (60)
US 1998-88026P	19980604 (60)
US 1998-88028P	19980604 (60)
US 1998-88029P	19980604 (60)
US 1998-88030P	19980604 (60)
US 1998-88033P	19980604 (60)
US 1998-88326P	19980604 (60)
US 1998-88167P	19980605 (60)
US 1998-88202P	19980605 (60)
US 1998-88212P	19980605 (60)
US 1998-88217P	19980605 (60)
US 1998-88655P	19980609 (60)
US 1998-88734P	19980610 (60)
US 1998-88738P	19980610 (60)
US 1998-88742P	19980610 (60)
US 1998-88810P	19980610 (60)
US 1998-88824P	19980610 (60)
US 1998-88826P	19980610 (60)
US 1998-88858P	19980611 (60)
US 1998-88861P	19980611 (60)
US 1998-88876P	19980611 (60)
US 1998-89105P	19980612 (60)
US 1998-89440P	19980616 (60)
US 1998-89512P	19980616 (60)
US 1998-89514P	19980616 (60)
US 1998-89532P	19980617 (60)
US 1998-89538P	19980617 (60)
US 1998-89598P	19980617 (60)
US 1998-89599P	19980617 (60)
US 1998-89600P	19980617 (60)
US 1998-89653P	19980617 (60)
US 1998-89801P	19980618 (60)
US 1998-89907P	19980618 (60)
US 1998-89908P	19980618 (60)

DT Utility

FS APPLICATION

LREP Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 31810

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 148 OF 184 USPATFULL on STN
AN 2002:314687 USPATFULL
TI Secreted and transmembrane polypeptides and nucleic acids encoding the same
IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PA Genentech, Inc. (U.S. corporation)
PI US 2002177164 A1 20021128
US 7034136 B2 20060425
AI US 2001-989293 A1 20011120 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201
WO 1999-US30095 19991216
WO 1999-US30911 19991220
WO 2000-US219 20000105
WO 2000-US376 20000106
WO 2000-US3565 20000211
WO 2000-US4341 20000218
WO 2000-US4414 20000222
WO 2000-US4914 20000224
WO 2000-US5004 20000224
WO 2000-US5841 20000302
WO 2000-US6319 20000310
WO 2000-US6884 20000315
WO 2000-US7377 20000320
WO 2000-US8439 20000330
WO 2000-US13358 20000515
WO 2000-US14042 20000522
WO 2000-US15264 20000602
WO 2000-US13705 20000517

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 31827

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 149 OF 184 USPATFULL on STN

AN 2002:287521 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)

PI US 2002160384 A1 20021031

US 6956108 B2 20051018

AI US 2001-992598 A1 20011114 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

PRAI WO 1997-US20069 19971105

WO 1998-US19330 19980916

WO 1998-US19437 19980917

WO 1998-US21141 19981007

WO 1998-US25108 19981201

WO 1999-US106 19990105

WO 1999-US5028 19990308

WO 1999-US12252 19990602

WO 1999-US21090 19990915

WO 1999-US21547 19990915

WO 1999-US28313 19991130

WO 1999-US28301 19991201

WO 1999-US28634 19991201

WO 1999-US30095 19991216

WO 1999-US30911 19991220

WO 2000-US219 20000105

WO 2000-US376 20000106

WO 2000-US3565 20000211

US 1998-89514P 19980616 (60)
US 1998-89532P 19980617 (60)
US 1998-89538P 19980617 (60)
US 1998-89598P 19980617 (60)
US 1998-89599P 19980617 (60)
US 1998-89600P 19980617 (60)
US 1998-89653P 19980617 (60)
US 1998-89801P 19980618 (60)
US 1998-89907P 19980618 (60)
US 1998-89908P 19980618 (60)

DT Utility

FS APPLICATION

LREP Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower, Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32279

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 150 OF 184 USPATFULL on STN

AN 2002:272477 USPATFULL

TI Abundant extracellular products and methods for their production and use

IN Horwitz, Marcus A., Los Angeles, CA, UNITED STATES

PA The Regents of The University of California (U.S. corporation)

PI US 2002150592 A1 20021017

AI US 2001-953457 A1 20010914 (9)

RLI Continuation-in-part of Ser. No. US 1998-156358, filed on 18 Sep 1998, UNKNOWN

DT Utility

FS APPLICATION

LREP OPPENHEIMER WOLFF & DONNELLY LLP, 840 NEWPORT CENTER DRIVE, SUITE 700, NEWPORT BEACH, CA, 92660

CLMN Number of Claims: 60

ECL Exemplary Claim: 1

DRWN 10 Drawing Page(s)

LN.CNT 3254

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Vaccines based on combinations of majorly abundant extracellular products of pathogens and methods for their use and production are presented. The most prevalent or majorly abundant extracellular products of a target pathogen are selected irrespective of their absolute molecular immunogenicity and used as vaccines to stimulate a protective immune response in mammalian hosts against subsequent infection by the target pathogen. The majorly abundant extracellular products may be characterized and distinguished by their respective N-terminal amino acid sequences. As the vaccines may comprise different combinations of the extracellular products, a broad range effective immunotherapeutic compositions are provided by the present invention. In addition to other infectious agents, the vaccines so produced can be used to stimulate an effective immune response against intracellular pathogens and in particular *Mycobacterium tuberculosis*.

L9 ANSWER 151 OF 184 USPATFULL on STN

AN 2002:259389 USPATFULL
TI Secreted and transmembrane polypeptides and nucleic acids encoding the same
IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PA Genentech, Inc. (U.S. corporation)
PI US 2002142961 A1 20021003
AI US 2001-989721 A1 20011119 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201
WO 1999-US30095 19991216
WO 1999-US30911 19991220
WO 2000-US219 20000105
WO 2000-US376 20000106
WO 2000-US3565 20000211
WO 2000-US4341 20000218
WO 2000-US4414 20000222
WO 2000-US4914 20000224
WO 2000-US5004 20000224
WO 2000-US5841 20000302
WO 2000-US6319 20000310
WO 2000-US6884 20000315
WO 2000-US7377 20000320
WO 2000-US8439 20000330
WO 2000-US13358 20000515
WO 2000-US14042 20000522
WO 2000-US15264 20000602
WO 2000-US13705 20000517
WO 2000-US14941 20000530
WO 2000-US20710 20000728

ECL Exemplary Claim: 1
DRWN 330 Drawing Page(s)
LN.CNT 32302

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 152 OF 184 USPATFULL on STN

AN 2002:251932 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES

Baker, Kevin P., Darnestown, MD, UNITED STATES

Botstein, David, Belmont, CA, UNITED STATES

Desnoyers, Luc, San Francisco, CA, UNITED STATES

Eaton, Dan L., San Rafael, CA, UNITED STATES

Ferrara, Napoleone, San Francisco, CA, UNITED STATES

Fong, Sherman, Alameda, CA, UNITED STATES

Gerber, Hanspeter, San Francisco, CA, UNITED STATES

Gerritsen, Mary E., San Mateo, CA, UNITED STATES

Goddard, Audrey, San Francisco, CA, UNITED STATES

Godowski, Paul J., Hillsborough, CA, UNITED STATES

Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES

Gurney, Austin L., Belmont, CA, UNITED STATES

Kljavin, Ivar J., Lafayette, CA, UNITED STATES

Napier, Mary A., Hillsborough, CA, UNITED STATES

Pan, James, Belmont, CA, UNITED STATES

Paoni, Nicholas F., Belmont, CA, UNITED STATES

Roy, Margaret Ann, San Francisco, CA, UNITED STATES

Stewart, Timothy A., San Francisco, CA, UNITED STATES

Tumas, Daniel, Orinda, CA, UNITED STATES

Watanabe, Colin K., Moraga, CA, UNITED STATES

Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES

Wood, William I., Hillsborough, CA, UNITED STATES

Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)

PI US 2002137890 A1 20020926

AI US 2001-990456 A1 20011114 (9)

RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING

PRAI WO 1997-US20069 19971105

WO 1998-US19330 19980916

WO 1998-US19437 19980917

WO 1998-US21141 19981007

WO 1998-US25108 19981201

WO 1999-US106 19990105

WO 1999-US5028 19990308

WO 1999-US12252 19990602

WO 1999-US21090 19990915

WO 1999-US21547 19990915

WO 1999-US28313 19991130

WO 1999-US28301 19991201

WO 1999-US28634 19991201

WO 1999-US30095 19991216

WO 1999-US30911 19990220

WO 2000-US219 20000105

WO 2000-US376 20000106

WO 2000-US3565 20000211

WO 2000-US4341 20000218

WO 2000-US4414 20000222

US 1998-89538P 19980617 (60)
US 1998-89598P 19980617 (60)
US 1998-89599P 19980617 (60)
US 1998-89600P 19980617 (60)
US 1998-89653P 19980617 (60)
US 1998-89801P 19980618 (60)
US 1998-89907P 19980618 (60)
US 1998-89908P 19980618 (60)

DT Utility
FS APPLICATION
LREP Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599
CLMN Number of Claims: 118
ECL Exemplary Claim: 1
DRWN 330 Drawing Page(s)
LN.CNT 31812
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.
L9 ANSWER 153 OF 184 USPATFULL on STN
AN 2002:251131 USPATFULL
TI Secreted and transmembrane polypeptides and nucleic acids encoding the same
IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PA Genentech, Inc. (U.S. corporation)
PI US 2002137075 A1 20020926
AI US 2001-993604 A1 20011114 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308

US 1998-88738P	19980610 (60)
US 1998-88742P	19980610 (60)
US 1998-88810P	19980610 (60)
US 1998-88824P	19980610 (60)
US 1998-88826P	19980610 (60)
US 1998-88858P	19980611 (60)
US 1998-88861P	19980611 (60)
US 1998-88876P	19980611 (60)
US 1998-89105P	19980612 (60)
US 1998-89440P	19980616 (60)
US 1998-89512P	19980616 (60)
US 1998-89514P	19980616 (60)
US 1998-89532P	19980617 (60)
US 1998-89538P	19980617 (60)
US 1998-89598P	19980617 (60)
US 1998-89599P	19980617 (60)
US 1998-89600P	19980617 (60)
US 1998-89653P	19980617 (60)
US 1998-89801P	19980618 (60)
US 1998-89907P	19980618 (60)
US 1998-89908P	19980618 (60)

DT Utility

FS APPLICATION

LREP Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 31782

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 154 OF 184 USPATFULL on STN

AN 2002:243067 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES

Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)
PI US 2002132253 A1 20020919
AI US 2001-991163 A1 20011114 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201
WO 1999-US30095 19991216
WO 1999-US30911 19991220
WO 2000-US219 20000105
WO 2000-US376 20000106
WO 2000-US3565 20000211
WO 2000-US4341 20000218
WO 2000-US4414 20000222
WO 2000-US4914 20000224
WO 2000-US5004 20000224
WO 2000-US5841 20000302
WO 2000-US6319 20000310
WO 2000-US6884 20000315
WO 2000-US7377 20000320
WO 2000-US8439 20000330
WO 2000-US13358 20000515
WO 2000-US14042 20000522
WO 2000-US15264 20000602
WO 2000-US13705 20000517
WO 2000-US14941 20000530
WO 2000-US20710 20000728
WO 2000-US22031 20000811
WO 2000-US23522 20000823
WO 2000-US23328 20000824
WO 2000-US30952 20001108
WO 2000-US32678 20001201
WO 2001-US6520 20010228
WO 2001-US17800 20010601
WO 2001-US19692 20010620
WO 2001-US21066 20010629
WO 2001-US21735 20010709
US 1997-49787P 19970616 (60)
US 1997-62250P 19971017 (60)
US 1997-65186P 19971112 (60)
US 1997-65311P 19971113 (60)
US 1997-66770P 19971124 (60)
US 1998-75945P 19980225 (60)
US 1998-78910P 19980320 (60)
US 1998-83322P 19980428 (60)
US 1998-84600P 19980507 (60)
US 1998-87106P 19980528 (60)
US 1998-87607P 19980602 (60)
US 1998-87609P 19980602 (60)
US 1998-87759P 19980602 (60)
US 1998-87827P 19980603 (60)
US 1998-88021P 19980604 (60)

US 1998-88025P	19980604 (60)
US 1998-88026P	19980604 (60)
US 1998-88028P	19980604 (60)
US 1998-88029P	19980604 (60)
US 1998-88030P	19980604 (60)
US 1998-88033P	19980604 (60)
US 1998-88326P	19980604 (60)
US 1998-88167P	19980605 (60)
US 1998-88202P	19980605 (60)
US 1998-88212P	19980605 (60)
US 1998-88217P	19980605 (60)
US 1998-88655P	19980609 (60)
US 1998-88734P	19980610 (60)
US 1998-88738P	19980610 (60)
US 1998-88742P	19980610 (60)
US 1998-88810P	19980610 (60)
US 1998-88824P	19980610 (60)
US 1998-88826P	19980610 (60)
US 1998-88858P	19980611 (60)
US 1998-88861P	19980611 (60)
US 1998-88876P	19980611 (60)
US 1998-89105P	19980612 (60)
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US 1998-89512P	19980616 (60)
US 1998-89514P	19980616 (60)
US 1998-89532P	19980617 (60)
US 1998-89538P	19980617 (60)
US 1998-89598P	19980617 (60)
US 1998-89599P	19980617 (60)
US 1998-89600P	19980617 (60)
US 1998-89653P	19980617 (60)
US 1998-89801P	19980618 (60)
US 1998-89907P	19980618 (60)
US 1998-89908P	19980618 (60)

DT Utility

FS APPLICATION

LREP Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 31817

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 155 OF 184 USPATFULL on STN

AN 2002:243066 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES

Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PA Genentech, Inc. (U.S. corporation)
PI US 2002132252 A1 20020919
AI US 2001-990442 A1 20011114 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201
WO 1999-US30095 19991216
WO 1999-US30911 19991220
WO 2000-US219 20000105
WO 2000-US376 20000106
WO 2000-US3565 20000211
WO 2000-US4341 20000218
WO 2000-US4414 20000222
WO 2000-US4914 20000224
WO 2000-US5004 20000224
WO 2000-US5841 20000302
WO 2000-US6319 20000310
WO 2000-US6884 20000315
WO 2000-US7377 20000320
WO 2000-US8439 20000330
WO 2000-US13358 20000515
WO 2000-US14042 20000522
WO 2000-US15264 20000602
WO 2000-US13705 20000517
WO 2000-US14941 20000530
WO 2000-US20710 20000728
WO 2000-US22031 20000811
WO 2000-US23522 20000823
WO 2000-US23328 20000824
WO 2000-US30952 20001108
WO 2000-US32678 20001201
WO 2001-US6520 20010228
WO 2001-US17800 20010601
WO 2001-US19692 20010620
WO 2001-US21066 20010629
WO 2001-US21735 20010709
US 1997-49787P 19970616 (60)
US 1997-62250P 19971017 (60)

US 1997-65186P	19971112 (60)
US 1997-65311P	19971113 (60)
US 1997-66770P	19971124 (60)
US 1998-75945P	19980225 (60)
US 1998-78910P	19980320 (60)
US 1998-83322P	19980428 (60)
US 1998-84600P	19980507 (60)
US 1998-87106P	19980528 (60)
US 1998-87607P	19980602 (60)
US 1998-87609P	19980602 (60)
US 1998-87759P	19980602 (60)
US 1998-87827P	19980603 (60)
US 1998-88021P	19980604 (60)
US 1998-88025P	19980604 (60)
US 1998-88026P	19980604 (60)
US 1998-88028P	19980604 (60)
US 1998-88029P	19980604 (60)
US 1998-88030P	19980604 (60)
US 1998-88033P	19980604 (60)
US 1998-88326P	19980604 (60)
US 1998-88167P	19980605 (60)
US 1998-88202P	19980605 (60)
US 1998-88212P	19980605 (60)
US 1998-88217P	19980605 (60)
US 1998-88655P	19980609 (60)
US 1998-88734P	19980610 (60)
US 1998-88738P	19980610 (60)
US 1998-88742P	19980610 (60)
US 1998-88810P	19980610 (60)
US 1998-88824P	19980610 (60)
US 1998-88826P	19980610 (60)
US 1998-88858P	19980611 (60)
US 1998-88861P	19980611 (60)
US 1998-88876P	19980611 (60)
US 1998-89105P	19980612 (60)
US 1998-89440P	19980616 (60)
US 1998-89512P	19980616 (60)
US 1998-89514P	19980616 (60)
US 1998-89532P	19980617 (60)
US 1998-89538P	19980617 (60)
US 1998-89598P	19980617 (60)
US 1998-89599P	19980617 (60)
US 1998-89600P	19980617 (60)
US 1998-89653P	19980617 (60)
US 1998-89801P	19980618 (60)
US 1998-89907P	19980618 (60)
US 1998-89908P	19980618 (60)

DT Utility

FS APPLICATION

LREP Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32377

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 156 OF 184 USPATFULL on STN
AN 2002:242795 USPATFULL
TI Abundant extracellular products and methods for
their production and use
IN Horwitz, Marcus A., Los Angeles, CA, UNITED STATES
Harth, Gunter, Los Angeles, CA, UNITED STATES
PA The Regents of The University of California (U.S. corporation)
PI US 2002131975 A1 20020919
US 6818223 B2 20041116
AI US 2001-953510 A1 20010914 (9)
RLI Continuation-in-part of Ser. No. US 1998-157689, filed on 21 Sep 1998,
PENDING Continuation of Ser. No. US 1996-652842, filed on 23 May 1996,
ABANDONED Continuation-in-part of Ser. No. US 1996-568357, filed on 6
Dec 1996, ABANDONED Continuation-in-part of Ser. No. US 1995-551149,
filed on 31 Oct 1995, ABANDONED Continuation-in-part of Ser. No. US
1995-447398, filed on 23 May 1995, PENDING Continuation-in-part of Ser.
No. US 1994-289667, filed on 12 Aug 1994, ABANDONED Continuation-in-part
of Ser. No. US 1993-156358, filed on 23 Nov 1993, PENDING

DT Utility
FS APPLICATION
LREP OPPENHEIMER WOLFF & DONNELLY LLP, 840 NEWPORT CENTER DRIVE, SUITE 700,
NEWPORT BEACH, CA, 92660
CLMN Number of Claims: 46
ECL Exemplary Claim: 1
DRWN 12 Drawing Page(s)
LN.CNT 4206

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Vaccines based on one or more combinations of majorly abundant
extracellular products of pathogens and methods for
their use and production are presented. The most prevalent or majorly
abundant extracellular products of a target pathogen
are selected irrespective of their absolute molecular immunogenicity and
used as vaccines to stimulate a protective immune response in
mammalian hosts against subsequent infection by the target pathogen. The
majorly abundant extracellular products may be
characterized and distinguished by their respective N-terminal amino
acid or DNA sequences. As the vaccines may comprise different
combinations of the extracellular products, subunits
thereof, or encoding nucleic acids, a broad range of effective
immunotherapeutic compositions are provided by the present invention. In
addition to other infectious agents, the vaccines so produced
can be used to stimulate an effective immune response against
intracellular pathogens and in particular *Mycobacterium*
tuberculosis.

L9 ANSWER 157 OF 184 USPATFULL on STN
AN 2002:235387 USPATFULL
TI Secreted and transmembrane polypeptides and nucleic acids encoding the
same
IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES

Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)
PI US 2002127576 A1 20020912
AI US 2001-991073 A1 20011114 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
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WO 1999-US30911 19990220
WO 2000-US219 20000105
WO 2000-US376 20000106
WO 2000-US3565 20000211
WO 2000-US4341 20000218
WO 2000-US4414 20000222
WO 2000-US4914 20000224
WO 2000-US5004 20000224
WO 2000-US5841 20000302
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WO 2000-US7377 20000320
WO 2000-US8439 20000330
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WO 2000-US14042 20000522
WO 2000-US15264 20000602
WO 2000-US13705 20000517
WO 2000-US14941 20000530
WO 2000-US20710 20000728
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WO 2000-US23328 20000824
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WO 2001-US6520 20010228
WO 2001-US17800 20010601
WO 2001-US19692 20010620
WO 2001-US21066 20010629
WO 2001-US21735 20010709
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US 1997-65186P 19971112 (60)
US 1997-65311P 19971113 (60)
US 1997-66770P 19971124 (60)
US 1998-75945P 19980225 (60)
US 1998-78910P 19980320 (60)
US 1998-83322P 19980428 (60)

US 1998-84600P	19980507 (60)
US 1998-87106P	19980528 (60)
US 1998-87607P	19980602 (60)
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US 1998-87827P	19980603 (60)
US 1998-88021P	19980604 (60)
US 1998-88025P	19980604 (60)
US 1998-88026P	19980604 (60)
US 1998-88028P	19980604 (60)
US 1998-88029P	19980604 (60)
US 1998-88030P	19980604 (60)
US 1998-88033P	19980604 (60)
US 1998-88326P	19980604 (60)
US 1998-88167P	19980605 (60)
US 1998-88202P	19980605 (60)
US 1998-88212P	19980605 (60)
US 1998-88217P	19980605 (60)
US 1998-88655P	19980609 (60)
US 1998-88734P	19980610 (60)
US 1998-88738P	19980610 (60)
US 1998-88742P	19980610 (60)
US 1998-88810P	19980610 (60)
US 1998-88824P	19980610 (60)
US 1998-88826P	19980610 (60)
US 1998-88858P	19980611 (60)
US 1998-88861P	19980611 (60)
US 1998-88876P	19980611 (60)
US 1998-89105P	19980612 (60)
US 1998-89440P	19980616 (60)
US 1998-89512P	19980616 (60)
US 1998-89514P	19980616 (60)
US 1998-89532P	19980617 (60)
US 1998-89538P	19980617 (60)
US 1998-89598P	19980617 (60)
US 1998-89599P	19980617 (60)
US 1998-89600P	19980617 (60)
US 1998-89653P	19980617 (60)
US 1998-89801P	19980618 (60)
US 1998-89907P	19980618 (60)
US 1998-89908P	19980618 (60)

DT Utility

FS APPLICATION

LREP Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 31783

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 158 OF 184 USPATFULL on STN

AN 2002:228303 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES

Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)
PI US 2002123463 A1 20020905
US 7037679 B2 20060502
AI US 2001-989732 A1 20011119 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201
WO 1999-US30095 19991216
WO 1999-US30911 19991220
WO 2000-US219 20000105
WO 2000-US376 20000106
WO 2000-US3565 20000211
WO 2000-US4341 20000218
WO 2000-US4414 20000222
WO 2000-US4914 20000224
WO 2000-US5004 20000224
WO 2000-US5841 20000302
WO 2000-US6319 20000310
WO 2000-US6884 20000315
WO 2000-US7377 20000320
WO 2000-US8439 20000330
WO 2000-US13358 20000515
WO 2000-US14042 20000522
WO 2000-US15264 20000602
WO 2000-US13705 20000517
WO 2000-US14941 20000530
WO 2000-US20710 20000728
WO 2000-US22031 20000811
WO 2000-US23522 20000823
WO 2000-US23328 20000824
WO 2000-US30952 20001108

WO 2000-US32678	20001201
WO 2001-US6520	20010228
WO 2001-US17800	20010601
WO 2001-US19692	20010620
WO 2001-US21066	20010629
WO 2001-US21735	20010709
US 1997-49787P	19970616 (60)
US 1997-62250P	19971017 (60)
US 1997-65186P	19971112 (60)
US 1997-65311P	19971113 (60)
US 1997-66770P	19971124 (60)
US 1998-75945P	19980225 (60)
US 1998-78910P	19980320 (60)
US 1998-83322P	19980428 (60)
US 1998-84600P	19980507 (60)
US 1998-87106P	19980528 (60)
US 1998-87607P	19980602 (60)
US 1998-87609P	19980602 (60)
US 1998-87759P	19980602 (60)
US 1998-87827P	19980603 (60)
US 1998-88021P	19980604 (60)
US 1998-88025P	19980604 (60)
US 1998-88026P	19980604 (60)
US 1998-88028P	19980604 (60)
US 1998-88029P	19980604 (60)
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US 1998-88033P	19980604 (60)
US 1998-88326P	19980604 (60)
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US 1998-88738P	19980610 (60)
US 1998-88742P	19980610 (60)
US 1998-88810P	19980610 (60)
US 1998-88824P	19980610 (60)
US 1998-88826P	19980610 (60)
US 1998-88858P	19980611 (60)
US 1998-88861P	19980611 (60)
US 1998-88876P	19980611 (60)
US 1998-89105P	19980612 (60)
US 1998-89440P	19980616 (60)
US 1998-89512P	19980616 (60)
US 1998-89514P	19980616 (60)
US 1998-89532P	19980617 (60)
US 1998-89538P	19980617 (60)
US 1998-89598P	19980617 (60)
US 1998-89599P	19980617 (60)
US 1998-89600P	19980617 (60)
US 1998-89653P	19980617 (60)
US 1998-89801P	19980618 (60)
US 1998-89907P	19980618 (60)
US 1998-89908P	19980618 (60)

DT

Utility

FS

APPLICATION

LREP

BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN

Number of Claims: 118

ECL

Exemplary Claim: 1

DRWN

330 Drawing Page(s)

LN.CNT 32289

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic

acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 159 OF 184 USPATFULL on STN
AN 2002:213764 USPATFULL
TI Rath genes and polypeptides and methods for the treatment and diagnosis of immune disorders
IN Levinson, Douglas Adam, Sherborn, MA, UNITED STATES
Gimeno, Carlos J., Boston, MA, UNITED STATES
PA Millennium Pharmaceuticals, Inc. (U.S. corporation)
PI US 2002115140 A1 20020822
AI US 2001-873438 A1 20010604 (9)
RLI Continuation of Ser. No. US 1997-949005, filed on 10 Oct 1997, ABANDONED
Division of Ser. No. US 1997-870815, filed on 6 Jun 1997, PATENTED
Continuation-in-part of Ser. No. US 1996-726228, filed on 4 Oct 1996,
PATENTED
DT Utility
FS APPLICATION
LREP PENNIE AND EDMONDS, 1155 AVENUE OF THE AMERICAS, NEW YORK, NY, 100362711
CLMN Number of Claims: 57
ECL Exemplary Claim: 1
DRWN 3 Drawing Page(s)
LN.CNT 3908
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates, first, to the identification of novel nucleic acid molecules, termed RATH genes and RATH gene products encoded by such nucleic acid molecules, or degenerate variants thereof, that participate in the regulation, control and/or modulation of G-protein-mediated signal transduction involved in T cell activation, including, but not limited to T helper (TH) cell and TH cell subpopulation activation. Specifically, the nucleic acid molecules of the present invention include the genes corresponding to the mammalian RATH genes, including the RATH1.1 genes. Sequence analysis indicates that the RATH genes are novel genes belonging to the RGS ("regulator of G-protein signalling") gene family, a gene family which encodes gene products involved in G-protein-mediated signal transduction.

L9 ANSWER 160 OF 184 USPATFULL on STN
AN 2002:192054 USPATFULL
TI Secreted and transmembrane polypeptides and nucleic acids encoding the same
IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES

Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Ltd. (U.S. corporation)
PI US 2002103125 A1 20020801
AI US 2001-989731 A1 20011120 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201
WO 1999-US30095 19991216
WO 1999-US30911 19990220
WO 2000-US219 20000105
WO 2000-US376 20000106
WO 2000-US3565 20000211
WO 2000-US4341 20000218
WO 2000-US4414 20000222
WO 2000-US4914 20000224
WO 2000-US5004 20000224
WO 2000-US5841 20000302
WO 2000-US6319 20000310
WO 2000-US6884 20000315
WO 2000-US7377 20000320
WO 2000-US8439 20000330
WO 2000-US13358 20000515
WO 2000-US14042 20000522
WO 2000-US15264 20000602
WO 2000-US13705 20000517
WO 2000-US14941 20000530
WO 2000-US20710 20000728
WO 2000-US22031 20000811
WO 2000-US23522 20000823
WO 2000-US23328 20000824
WO 2000-US30952 20001108
WO 2000-US32678 20001201
WO 2001-US6520 20010228
WO 2001-US17800 20010601
WO 2001-US19692 20010620
WO 2001-US21066 20010629
WO 2001-US21735 20010709
US 1997-49787P 19970616 (60)
US 1997-62250P 19971017 (60)
US 1997-65186P 19971112 (60)
US 1997-65311P 19971113 (60)
US 1997-66770P 19971124 (60)
US 1998-75945P 19980225 (60)
US 1998-78910P 19980320 (60)
US 1998-83322P 19980428 (60)
US 1998-84600P 19980507 (60)
US 1998-87106P 19980528 (60)
US 1998-87607P 19980602 (60)
US 1998-87609P 19980602 (60)

US 1998-87759P	19980602	(60)
US 1998-87827P	19980603	(60)
US 1998-88021P	19980604	(60)
US 1998-88025P	19980604	(60)
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US 1998-88033P	19980604	(60)
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US 1998-88858P	19980611	(60)
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US 1998-88876P	19980611	(60)
US 1998-89105P	19980612	(60)
US 1998-89440P	19980616	(60)
US 1998-89512P	19980616	(60)
US 1998-89514P	19980616	(60)
US 1998-89532P	19980617	(60)
US 1998-89538P	19980617	(60)
US 1998-89598P	19980617	(60)
US 1998-89599P	19980617	(60)
US 1998-89600P	19980617	(60)
US 1998-89653P	19980617	(60)
US 1998-89801P	19980618	(60)
US 1998-89907P	19980618	(60)
US 1998-89908P	19980618	(60)

DT

Utility

FS

APPLICATION

LREP

Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599

CLMN

Number of Claims: 118

ECL

Exemplary Claim: 1

DRWN

330 Drawing Page(s)

LN.CNT 32359

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 161 OF 184 USPATFULL on STN

AN 2002:191539 USPATFULL

TI Full-length human cDNAs encoding potentially secreted proteins

IN Milne Edwards, Jean-Baptiste Dumas, Paris, FRANCE

Bougueret, Lydie, Petit Lancy, SWITZERLAND

Jobert, Severin, Paris, FRANCE

PI US 2002102604 A1 20020801

AI US 2000-731872 A1 20001207 (9)

PRAI US 1999-169629P 19991208 (60)

US 2000-187470P 20000306 (60)

DT Utility
FS APPLICATION
LREP John Lucas, Ph.D., J.D., Genset Corporation, 10665 Sorrento Valley Road,
San Diego, CA, 92121-1609
CLMN Number of Claims: 29
ECL Exemplary Claim: 1
DRWN 5 Drawing Page(s)
LN.CNT 28061

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention concerns GENSET polynucleotides and polypeptides. Such GENSET products may be used as reagents in forensic analyses, as chromosome markers, as tissue/cell/organelle-specific markers, in the production of expression vectors. In addition, they may be used in screening and diagnosis assays for abnormal GENSET expression and/or biological activity and for screening compounds that may be used in the treatment of GENSET-related disorders.

L9 ANSWER 162 OF 184 USPATFULL on STN
AN 2002:141511 USPATFULL
TI Secreted and transmembrane polypeptides and nucleic acids encoding the same
IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PA Genentech, Inc. (U.S. corporation)
PI US 2002072497 A1 20020613
AI US 2001-989727 A1 20011119 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201
WO 1999-US30095 19991216
WO 1999-US30911 19990220

WO 2000-US219	20000105
WO 2000-US376	20000106
WO 2000-US3565	20000211
WO 2000-US4341	20000218
WO 2000-US4414	20000222
WO 2000-US4914	20000224
WO 2000-US5004	20000224
WO 2000-US5841	20000302
WO 2000-US6319	20000310
WO 2000-US6884	20000315
WO 2000-US7377	20000320
WO 2000-US8439	20000330
WO 2000-US13358	20000515
WO 2000-US14042	20000522
WO 2000-US15264	20000602
WO 2000-US13705	20000517
WO 2000-US14941	20000530
WO 2000-US20710	20000728
WO 2000-US22031	20000811
WO 2000-US23522	20000823
WO 2000-US23328	20000824
WO 2000-US30952	20001108
WO 2000-US32678	20001201
WO 2001-US6520	20010228
WO 2001-US17800	20010601
WO 2001-US19692	20010620
WO 2001-US21066	20010629
WO 2001-US21735	20010709
US 1997-49787P	19970616 (60)
US 1997-62250P	19971017 (60)
US 1997-65186P	19971112 (60)
US 1997-65311P	19971113 (60)
US 1997-66770P	19971124 (60)
US 1998-75945P	19980225 (60)
US 1998-78910P	19980320 (60)
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US 1998-88033P	19980604 (60)
US 1998-88326P	19980604 (60)
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US 1998-88212P	19980605 (60)
US 1998-88217P	19980605 (60)
US 1998-88655P	19980609 (60)
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US 1998-88858P	19980611 (60)
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US 1998-88876P	19980611 (60)

US 1998-89105P 19980612 (60)
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US 1998-89600P 19980617 (60)
US 1998-89653P 19980617 (60)
US 1998-89801P 19980618 (60)
US 1998-89907P 19980618 (60)
US 1998-89908P 19980618 (60)

DT Utility
FS APPLICATION
LREP Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599
CLMN Number of Claims: 118
ECL Exemplary Claim: 1
DRWN 330 Drawing Page(s)
LN.CNT 32439

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 163 OF 184 USPATFULL on STN
AN 2002:141510 USPATFULL
TI Secreted and transmembrane polypeptides and nucleic acids encoding the same
IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES
PA Genentech, Inc. (U.S. corporation)
PI US 2002072496 A1 20020613
US 7083978 B2 20060801
AI US 2001-989279 A1 20011119 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105

WO 1998-US19330	19980916
WO 1998-US19437	19980917
WO 1998-US21141	19981007
WO 1998-US25108	19981201
WO 1999-US106	19990105
WO 1999-US5028	19990308
WO 1999-US12252	19990602
WO 1999-US21090	19990915
WO 1999-US21547	19990915
WO 1999-US28313	19991130
WO 1999-US28301	19991201
WO 1999-US28634	19991201
WO 1999-US30095	19991216
WO 1999-US30911	19990220
WO 2000-US219	20000105
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WO 2000-US3565	20000211
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WO 2000-US4914	20000224
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WO 2000-US5841	20000302
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WO 2000-US6884	20000315
WO 2000-US7377	20000320
WO 2000-US8439	20000330
WO 2000-US13358	20000515
WO 2000-US14042	20000522
WO 2000-US15264	20000602
WO 2000-US13705	20000517
WO 2000-US14941	20000530
WO 2000-US20710	20000728
WO 2000-US22031	20000811
WO 2000-US23522	20000823
WO 2000-US23328	20000824
WO 2000-US30952	20001108
WO 2000-US32678	20001201
WO 2001-US6520	20010228
WO 2001-US17800	20010601
WO 2001-US19692	20010620
WO 2001-US21066	20010629
WO 2001-US21735	20010709
US 1997-49787P	19970616 (60)
US 1997-62250P	19971017 (60)
US 1997-65186P	19971112 (60)
US 1997-65311P	19971113 (60)
US 1997-66770P	19971124 (60)
US 1998-75945P	19980225 (60)
US 1998-78910P	19980320 (60)
US 1998-83322P	19980428 (60)
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US 1998-87607P	19980602 (60)
US 1998-87609P	19980602 (60)
US 1998-87759P	19980602 (60)
US 1998-87827P	19980603 (60)
US 1998-88021P	19980604 (60)
US 1998-88025P	19980604 (60)
US 1998-88026P	19980604 (60)
US 1998-88028P	19980604 (60)
US 1998-88029P	19980604 (60)
US 1998-88030P	19980604 (60)
US 1998-88033P	19980604 (60)
US 1998-88326P	19980604 (60)

US 1998-88167P	19980605 (60)
US 1998-88202P	19980605 (60)
US 1998-88212P	19980605 (60)
US 1998-88217P	19980605 (60)
US 1998-88655P	19980609 (60)
US 1998-88734P	19980610 (60)
US 1998-88738P	19980610 (60)
US 1998-88742P	19980610 (60)
US 1998-88810P	19980610 (60)
US 1998-88824P	19980610 (60)
US 1998-88826P	19980610 (60)
US 1998-88858P	19980611 (60)
US 1998-88861P	19980611 (60)
US 1998-88876P	19980611 (60)
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US 1998-89440P	19980616 (60)
US 1998-89512P	19980616 (60)
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US 1998-89538P	19980617 (60)
US 1998-89598P	19980617 (60)
US 1998-89599P	19980617 (60)
US 1998-89600P	19980617 (60)
US 1998-89653P	19980617 (60)
US 1998-89801P	19980618 (60)
US 1998-89907P	19980618 (60)
US 1998-89908P	19980618 (60)

DT Utility

FS APPLICATION

LREP Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione, NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL, 60611-5599

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32245

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 164 OF 184 USPATFULL on STN

AN 2002:141110 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Botstein, David, Belmont, CA, UNITED STATES
Desnoyers, Luc, San Francisco, CA, UNITED STATES
Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES

Paoni, Nicholas F., Belmont, CA, UNITED STATES
 Roy, Margaret Ann, San Francisco, CA, UNITED STATES
 Stewart, Timothy A., San Francisco, CA, UNITED STATES
 Tumas, Daniel, Orinda, CA, UNITED STATES
 Watanabe, Colin K., Moraga, CA, UNITED STATES
 Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
 Wood, William I., Hillsborough, CA, UNITED STATES
 Zhang, Zemin, Foster City, CA, UNITED STATES

PA	Genentech, Inc. (U.S. corporation)	
PI	US 2002072092	A1 20020613
AI	US 2001-989723	A1 20011119 (9)
RLI	Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING	
PRAI	WO 1997-US20069	19971105
	WO 1998-US19330	19980916
	WO 1998-US19437	19980917
	WO 1998-US21141	19981007
	WO 1998-US25108	19981201
	WO 1999-US106	19990105
	WO 1999-US5028	19990308
	WO 1999-US12252	19990602
	WO 1999-US21090	19990915
	WO 1999-US21547	19990915
	WO 1999-US28313	19991130
	WO 1999-US28301	19991201
	WO 1999-US28634	19991201
	WO 1999-US30095	19991216
	WO 1999-US30911	19990220
	WO 2000-US219	20000105
	WO 2000-US376	20000106
	WO 2000-US3565	20000211
	WO 2000-US4341	20000218
	WO 2000-US4414	20000222
	WO 2000-US4914	20000224
	WO 2000-US5004	20000224
	WO 2000-US5841	20000302
	WO 2000-US6319	20000310
	WO 2000-US6884	20000315
	WO 2000-US7377	20000320
	WO 2000-US8439	20000330
	WO 2000-US13358	20000515
	WO 2000-US14042	20000522
	WO 2000-US15264	20000602
	WO 2000-US13705	20000517
	WO 2000-US14941	20000530
	WO 2000-US20710	20000728
	WO 2000-US22031	20000811
	WO 2000-US23522	20000823
	WO 2000-US23328	20000824
	WO 2000-US30952	20001108
	WO 2000-US32678	20001201
	WO 2001-US6520	20010228
	WO 2001-US17800	20010601
	WO 2001-US19692	20010620
	WO 2001-US21066	20010629
	WO 2001-US21735	20010709
	US 1997-49787P	19970616 (60)
	US 1997-62250P	19971017 (60)
	US 1997-65186P	19971112 (60)
	US 1997-65311P	19971113 (60)
	US 1997-66770P	19971124 (60)
	US 1998-75945P	19980225 (60)
	US 1998-78910P	19980320 (60)
	US 1998-83322P	19980428 (60)
	US 1998-84600P	19980507 (60)

US 1998-87106P	19980528 (60)
US 1998-87607P	19980602 (60)
US 1998-87609P	19980602 (60)
US 1998-87759P	19980602 (60)
US 1998-87827P	19980603 (60)
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US 1998-88655P	19980609 (60)
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US 1998-88861P	19980611 (60)
US 1998-88876P	19980611 (60)
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US 1998-89514P	19980616 (60)
US 1998-89532P	19980617 (60)
US 1998-89538P	19980617 (60)
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US 1998-89600P	19980617 (60)
US 1998-89653P	19980617 (60)
US 1998-89801P	19980618 (60)
US 1998-89907P	19980618 (60)
US 1998-89908P	19980618 (60)

DT

Utility

FS

APPLICATION

LREP

BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN

Number of Claims: 118

ECL

Exemplary Claim: 1

DRWN

330 Drawing Page(s)

LN.CNT 32634

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 165 OF 184 USPATFULL on STN

AN 2002:141085 USPATFULL

TI Secreted and transmembrane polypeptides and nucleic acids encoding the same

IN Ashkenazi, Avi J., San Mateo, CA, UNITED STATES

Baker, Kevin P., Darnestown, MD, UNITED STATES

Botstein, David, Belmont, CA, UNITED STATES

Desnoyers, Luc, San Francisco, CA, UNITED STATES

Eaton, Dan L., San Rafael, CA, UNITED STATES
Ferrara, Napoleone, San Francisco, CA, UNITED STATES
Fong, Sherman, Alameda, CA, UNITED STATES
Gerber, Hanspeter, San Francisco, CA, UNITED STATES
Gerritsen, Mary E., San Mateo, CA, UNITED STATES
Goddard, Audrey, San Francisco, CA, UNITED STATES
Godowski, Paul J., Hillsborough, CA, UNITED STATES
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES
Gurney, Austin L., Belmont, CA, UNITED STATES
Kljavin, Ivar J., Lafayette, CA, UNITED STATES
Napier, Mary A., Hillsborough, CA, UNITED STATES
Pan, James, Belmont, CA, UNITED STATES
Paoni, Nicholas F., Belmont, CA, UNITED STATES
Roy, Margaret Ann, San Francisco, CA, UNITED STATES
Stewart, Timothy A., San Francisco, CA, UNITED STATES
Tumas, Daniel, Orinda, CA, UNITED STATES
Watanabe, Colin K., Moraga, CA, UNITED STATES
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES
Wood, William I., Hillsborough, CA, UNITED STATES
Zhang, Zemin, Foster City, CA, UNITED STATES

PA Genentech, Inc. (U.S. corporation)
PI US 2002072067 A1 20020613
AI US 2001-989722 A1 20011119 (9)
RLI Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING
PRAI WO 1997-US20069 19971105
WO 1998-US19330 19980916
WO 1998-US19437 19980917
WO 1998-US21141 19981007
WO 1998-US25108 19981201
WO 1999-US106 19990105
WO 1999-US5028 19990308
WO 1999-US12252 19990602
WO 1999-US21090 19990915
WO 1999-US21547 19990915
WO 1999-US28313 19991130
WO 1999-US28301 19991201
WO 1999-US28634 19991201
WO 1999-US30095 19991216
WO 1999-US30911 19990220
WO 2000-US219 20000105
WO 2000-US376 20000106
WO 2000-US3565 20000211
WO 2000-US4341 20000218
WO 2000-US4414 20000222
WO 2000-US4914 20000224
WO 2000-US5004 20000224
WO 2000-US5841 20000302
WO 2000-US6319 20000310
WO 2000-US6884 20000315
WO 2000-US7377 20000320
WO 2000-US8439 20000330
WO 2000-US13358 20000515
WO 2000-US14042 20000522
WO 2000-US15264 20000602
WO 2000-US13705 20000517
WO 2000-US14941 20000530
WO 2000-US20710 20000728
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WO 2000-US23522 20000823
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WO 2000-US30952 20001108
WO 2000-US32678 20001201
WO 2001-US6520 20010228
WO 2001-US17800 20010601

WO	2001-US19692	20010620
WO	2001-US21066	20010629
WO	2001-US21735	20010709
US	1997-49787P	19970616 (60)
US	1997-62250P	19971017 (60)
US	1997-65186P	19971112 (60)
US	1997-65311P	19971113 (60)
US	1997-66770P	19971124 (60)
US	1998-75945P	19980225 (60)
US	1998-78910P	19980320 (60)
US	1998-83322P	19980428 (60)
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US	1998-88025P	19980604 (60)
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US	1998-88028P	19980604 (60)
US	1998-88029P	19980604 (60)
US	1998-88030P	19980604 (60)
US	1998-88033P	19980604 (60)
US	1998-88326P	19980604 (60)
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US	1998-88876P	19980611 (60)
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US	1998-89440P	19980616 (60)
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US	1998-89600P	19980617 (60)
US	1998-89653P	19980617 (60)
US	1998-89801P	19980618 (60)
US	1998-89907P	19980618 (60)
US	1998-89908P	19980618 (60)

DT Utility

FS APPLICATION

LREP BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

CLMN Number of Claims: 118

ECL Exemplary Claim: 1

DRWN 330 Drawing Page(s)

LN.CNT 32345

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present

invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L9 ANSWER 166 OF 184 USPATFULL on STN
AN 2002:92059 USPATFULL
TI Enzyme treatment
IN Anderson, David M., Rockville, MD, UNITED STATES
Liu, Lin, Rockville, MD, UNITED STATES
Hsiao, Hung-Yu, Rockville, MD, UNITED STATES
Fodge, Douglas W., Derwood, MD, UNITED STATES
PI US 2002048576 A1 20020425
US 6780628 B2 20040824
AI US 2000-731971 A1 20001208 (9)
PRAI US 1999-169935P 19991210 (60)
DT Utility
FS APPLICATION
LREP Stephen A. Bent, FOLEY & LARDNER, Washington Harbour, 3000 K Street, N.W., Suite 500, Washington, DC, 20007-5109
CLMN Number of Claims: 33
ECL Exemplary Claim: 1
DRWN 1 Drawing Page(s)
LN.CNT 1677
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Enzymes of a particular class, characterized by the ability to cleave a linkage that effects release of a cell-surface protein or carbohydrate, which does not contain an anti-infection agent, display significant anti-infectious activity. Upon oral administration, these enzymes are effective, for example, in the treatment of digestive tract infections in humans and in animals. In the latter, there are benefits of significantly improved growth rate, feed efficiency, and overall health.

L9 ANSWER 167 OF 184 USPATFULL on STN
AN 2002:84902 USPATFULL
TI Nucleic acids, proteins and antibodies
IN Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
PI US 2002044941 A1 20020418
US 2003064072 A9 20030403
AI US 2001-925302 A1 20010810 (9)
RLI Continuation-in-part of Ser. No. WO 2000-US5918, filed on 8 Mar 2000, UNKNOWN
PRAI US 1999-124270P 19990312 (60)
DT Utility
FS APPLICATION
LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
CLMN Number of Claims: 23
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 21121
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel lung cancer related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "lung cancer antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such lung cancer polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the lung, including, but not limited to, the presence of lung cancer and lung cancer metastases. More specifically, isolated lung cancer nucleic acid molecules are provided encoding novel lung cancer polypeptides. Novel lung cancer polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human lung cancer polynucleotides, polypeptides, and/or antibodies. The invention further relates to

diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the lung, including lung cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

L9 ANSWER 168 OF 184 USPATFULL on STN
AN 2002:297432 USPATFULL
TI Non-stochastic generation of genetic vaccines
IN Short, Jay M., Rancho Santa Fe, CA, United States
PA Diversa Corporation, San Diego, CA, United States (U.S. corporation)
PI US 6479258 B1 20021112
AI US 2000-495052 20000131 (9)
RLI Continuation-in-part of Ser. No. US 1999-276860, filed on 26 Mar 1999
Continuation-in-part of Ser. No. US 1999-246178, filed on 4 Feb 1999,
now patented, Pat. No. US 6171820 Continuation-in-part of Ser. No. US
1998-185373, filed on 3 Nov 1998 Continuation-in-part of Ser. No. US
1996-760489, filed on 5 Dec 1996, now patented, Pat. No. US 5830696
PRAI US 1995-8311P 19951207 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Park, Hankyel T.
LREP Gray Cary Ware & Freidenrich LLP, Haile, Lisa A.
CLMN Number of Claims: 86
ECL Exemplary Claim: 1
DRWN 66 Drawing Figure(s); 61 Drawing Page(s)
LN.CNT 19213
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention provides methods of obtaining vaccines by use
of non-stochastic methods of directed evolution (DirectEvolution.TM.).
These methods include non-stochastic polynucleotide site-saturation
mutagenesis (Gene Site Saturation Mutagenesis.TM.) and non-stochastic
polynucleotide reassembly (GeneReassembly.TM.). Through use of the
claimed methods, vectors can be obtained which exhibit increased
efficacy for use as genetic vaccines. Vectors obtained by
using the methods can have, for example, enhanced antigen expression,
increased uptake into a cell, increased stability in a cell, ability to
tailor an immune response, and the like.

L9 ANSWER 169 OF 184 USPATFULL on STN
AN 2002:297296 USPATFULL
TI Methods for inhibition of membrane fusion-associated events, including
respiratory syncytial virus transmission
IN Bolognesi, Dani Paul, Durham, NC, United States
Matthews, Thomas James, Durham, NC, United States
Wild, Carl T., Durham, NC, United States
Barney, Shawn O'Lin, Cary, NC, United States
Lambert, Dennis Michael, Cary, NC, United States
Petteway, Stephen Robert, Cary, NC, United States
Langlois, Alphonse J., Durham, NC, United States
PA Trimeris, Inc., Durham, NC, United States (U.S. corporation)
PI US 6479055 B1 20021112
AI US 1995-470896 19950606 (8)
RLI Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994,
now patented, Pat. No. US 6017536 Continuation-in-part of Ser. No. US
1994-255208, filed on 7 Jun 1994 Continuation-in-part of Ser. No. US
1993-73028, filed on 7 Jun 1993, now patented, Pat. No. US 5464933
DT Utility
FS GRANTED
EXNAM Primary Examiner: Stucker, Jeffrey
LREP Pennie & Edmonds LLP

CLMN Number of Claims: 44
ECL Exemplary Claim: 1
DRWN 84 Drawing Figure(s); 83 Drawing Page(s)
LN.CNT 26553

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to peptides which exhibit potent anti-viral activity. In particular, the invention relates to methods of using such peptides as inhibitory of respiratory syncytial virus ("RSV") transmission to uninfected cells. The peptides used in the methods of the invention are homologs of the DP-178 and DP-107 peptides, peptides corresponding to amino acid residues 638 to 673, and to amino acid residues 558 to 595, respectively, of the HIV-1 sub.LAI transmembrane protein (TM) gp41.

L9 ANSWER 170 OF 184 USPATFULL on STN

AN 2002:291062 USPATFULL

TI Secreted protein HNFGF20

IN Komatsoulis, George, Silver Spring, MD, United States

Rosen, Craig A., Laytonsville, MD, United States

Ruben, Steven M., Olney, MD, United States

Duan, Roxanne D., Bethesda, MD, United States

Moore, Paul A., Germantown, MD, United States

Shi, Yanggu, Gaithersburg, MD, United States

LaFleur, David W., Washington, DC, United States

Wei, Ying-Fei, Berkeley, CA, United States

Ni, Jian, Rockville, MD, United States

Florence, Kimberly A., Rockville, MD, United States

Young, Paul, Gaithersburg, MD, United States

Brewer, Laurie A., St. Paul, MN, United States

Soppet, Daniel R., Centreville, VA, United States

Endress, Gregory A., Potomac, MD, United States

Ebner, Reinhard, Gaithersburg, MD, United States

Olsen, Henrik, Gaithersburg, MD, United States

Mucenski, Michael, Cincinnati, OH, United States

PA Human Genome Sciences, Inc., Rockville, MD, United States (U.S. corporation)

PI US 6476195 B1 20021105

AI US 2000-489847 20000124 (9)

RLI Continuation-in-part of Ser. No. WO 1999-US17130, filed on 29 Jul 1999

PRAI US 1998-94657P 19980730 (60)

US 1998-95486P 19980805 (60)

US 1998-96319P 19980812 (60)

US 1998-95454P 19980806 (60)

US 1998-95455P 19980806 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Goldberg, Jeanine

LREP Human Genome Sciences, Inc.

CLMN Number of Claims: 36

ECL Exemplary Claim: 1,7

DRWN 3 Drawing Figure(s); 3 Drawing Page(s)

LN.CNT 20107

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel human secreted protein (HNFGF20). Polypeptides of the invention are useful in diagnosis and treatment of disorders affecting the immune system.

L9 ANSWER 171 OF 184 USPATFULL on STN

AN 2002:122764 USPATFULL

TI Nucleic acid molecules encoding human protease homologs

IN Robison, Keith E., Wilmington, MA, United States

PA Millennium Pharmaceuticals, Inc., Cambridge, MA, United States (U.S. corporation)

PI US 6395889 B1 20020528

AI US 1999-392184 19990909 (9)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Achutamurthy, Ponnathapu; Assistant Examiner: Moore, William W.
LREP Alston & Bird LLP
CLMN Number of Claims: 1
ECL Exemplary Claim: 1
DRWN 0 Drawing Figure(s); 0 Drawing Page(s)
LN.CNT 5266
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention relates to polynucleotides encoding newly identified protease homologs. The invention also relates to the proteases. The invention further relates to methods using the protease polypeptides and polynucleotides as a target for diagnosis and treatment in protease-mediated disorders. The invention further relates to drug-screening methods using the protease polypeptides and polynucleotides to identify agonists and antagonists for diagnosis and treatment. The invention further encompasses agonists and antagonists based on the protease polypeptides and polynucleotides. The invention further relates to procedures for producing the protease polypeptides and polynucleotides.

L9 ANSWER 172 OF 184 USPATFULL on STN
AN 2002:13790 USPATFULL
TI Superantigen based methods and compositions for treatment of diseases
IN Terman, David Stephen, 3183 Palmero Way, Pebble Beach, CA, United States 93953
PI US 6340461 B1 20020122
AI US 1997-992877 19971217 (8)
PRAI US 1996-33172P 19961217 (60)
US 1997-44074P 19970417 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Bansal, Geetha P.
LREP Venable, Livnat, Shmuel
CLMN Number of Claims: 7
ECL Exemplary Claim: 1,6
DRWN 8 Drawing Figure(s); 8 Drawing Page(s)
LN.CNT 5893
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to therapeutic methods and compositions employing superantigens. Methods and compositions employing superantigens and immunotherapeutic proteins in combination with one another have been found to provide more effective treatment than either component used alone. Superantigens, in conjunction with one or more additional immunotherapeutic antigens, may be used to either induce a therapeutic immune response directed against a target or to inhibit a disease causing immune response. Specific combinations of superantigens and immunotherapeutic antigens are used to treat specific diseases. The induction (or augmentation) of a desired immune against a target may be used, for example, to kill cancer cells or kill the cells or an infectious agent. The inhibition of an immune response, e.g., through the induction of T cell anergy, may be used to reduce the symptoms of an autoimmune disease. Diseases that may be treated by the methods and compositions of the invention include neoplastic diseases, infectious diseases, and autoimmune diseases. One aspect of the invention is to provide methods for the treatment of diseases comprising the steps of administering an effective amount of a superantigen and an immunotherapeutic so as to have the desired therapeutic effect. The superantigen and immunotherapeutic antigen may be administered together as a mixture. Alternatively, the superantigen and immunotherapeutic antigen may be administered separately. In one embodiment of the invention, the superantigen and immunotherapeutic antigen are

administered to the patient in the form of a immunotherapeutic antigen-superantigen polymer of the invention. Another aspect of the invention is to provide methods for the treatment of diseases comprising the steps of incubating a lymphocyte population ex vivo a superantigen and an immunotherapeutic protein so as to either activate or anergize T cells within the selected population.

L9 ANSWER 173 OF 184 USPATFULL on STN
AN 2001:231174 USPATFULL
TI Protease homologs
IN Robison, Keith E., Wilmington, MA, United States
PA Millennium Pharmaceuticals, Inc., Cambridge, MA, United States (U.S. corporation)
PI US 6331427 B1 20011218
AI US 1999-280116 19990326 (9)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Murthy, Ponnathapu Achuta; Assistant Examiner: Moore, William W.
LREP Alston & Bird LLP
CLMN Number of Claims: 7
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 3346

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to polynucleotides encoding newly identified protease homologs belonging to the superfamily of G-protein-coupled proteases. The invention also relates to the proteases. The invention further relates to methods using the protease polypeptides and polynucleotides as a target for diagnosis and treatment in protease-mediated disorders. The invention further relates to drug-screening methods using the protease polypeptides and polynucleotides to identify agonists and antagonists for diagnosis and treatment. The invention further encompasses agonists and antagonists based on the protease polypeptides and polynucleotides. The invention further relates to procedures for producing the protease polypeptides and polynucleotides.

L9 ANSWER 174 OF 184 USPATFULL on STN
AN 2001:131062 USPATFULL
TI Nucleic acid molecules encoding monocyte chemotactic protein 5 (MCP-5) molecules and uses therefor
IN Gutierrez-Ramos, Jose-Carlos, Marblehead, MA, United States
Jia, Gui-Quan, Cambridge, MA, United States
Gonzalo, Jose-Angel, Cambridge, MA, United States
PA Center for Blood Research, Inc., Boston, MA, United States (U.S. corporation)
PI US 6274342 B1 20010814
AI US 1996-744419 19961108 (8)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Mertz, Prema
LREP Lahive & Cockfield, LLP, Mandragouras, Amy E., Laccotripe, Maria C.
CLMN Number of Claims: 23
ECL Exemplary Claim: 1
DRWN 5 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 3696

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the discovery of novel genes encoding Monocyte Chemotactic Protein-5 (MCP-5) polypeptides. Therapeutics, diagnostics and screening assays based on these molecules are also disclosed.

L9 ANSWER 175 OF 184 USPATFULL on STN

AN 2001:67794 USPATFULL
TI Human respiratory syncytial virus peptides with antifusogenic and
antiviral activities
IN Barney, Shawn O'Lin, Cary, NC, United States
Lambert, Dennis Michael, Cary, NC, United States
Petteway, Stephen Robert, Cary, NC, United States
PA Trimeris, Inc., Durham, NC, United States (U.S. corporation)
PI US 6228983 B1 20010508
AI US 1995-485264 19950607 (8)
RLI Division of Ser. No. US 1995-470896, filed on 6 Jun 1995
Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994
Continuation-in-part of Ser. No. US 1994-255208, filed on 7 Jun 1994
Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993, now
patented, Pat. No. US 5464933

DT Utility
FS Granted
EXNAM Primary Examiner: Scheiner, Laurie; Assistant Examiner: Parkin, Jeffrey
S.
LREP Pennie & Edmonds LLP
CLMN Number of Claims: 62
ECL Exemplary Claim: 1
DRWN 84 Drawing Figure(s); 83 Drawing Page(s)
LN.CNT 32166

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to peptides which exhibit antifusogenic and antiviral activities. The peptides of the invention consist of a 16 to 39 amino acid region of a human respiratory syncytial virus protein. These regions were identified through computer algorithms capable of recognizing the ALLMOT15, 107x178x4, or PLZIP amino acid motifs. These motifs are associated with the antifusogenic and antiviral activities of the claimed peptides.

L9 ANSWER 176 OF 184 USPATFULL on STN
AN 2000:153461 USPATFULL
TI Rath genes and polypeptides and methods for the treatment and diagnosis of immune disorders
IN Levinson, Douglas Adam, Sherborn, MA, United States
Gimeno, Carlos J., Boston, MA, United States
PA Millennium Pharmaceuticals, Inc., Cambridge, MA, United States (U.S. corporation)
PI US 6146827 20001114
AI US 1997-949004 19971010 (8)
RLI Division of Ser. No. US 1997-870815, filed on 6 Jun 1997, now patented, Pat. No. US 6020142 which is a continuation-in-part of Ser. No. US 1996-726228, filed on 4 Oct 1996, now patented, Pat. No. US 5846780
DT Utility
FS Granted
EXNAM Primary Examiner: Elliott, George C.; Assistant Examiner: Shibuya, Mark L.
LREP Pennie & Edmonds LLP
CLMN Number of Claims: 16
ECL Exemplary Claim: 1
DRWN 5 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 3951

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates, first, to the identification of novel nucleic acid molecules, termed RATH genes and RATH gene products encoded by such nucleic acid molecules, or degenerate variants thereof, that participate in the regulation, control and/or modulation of G-protein-mediated signal transduction involved in T cell activation, including, but not limited to T helper (TH) cell and TH cell subpopulation activation. Specifically, the nucleic acid molecules of the present invention include the genes corresponding to the mammalian RATH genes, including the RATH1.1 genes. Sequence analysis indicates

that the RATH genes are novel genes belonging to the RGS ("regulator of G-protein signalling") gene family, a gene family which encodes gene products involved in G-protein-mediated signal transduction.

L9 ANSWER 177 OF 184 USPATFULL on STN
AN 2000:12605 USPATFULL
TI Rath genes and polypeptides and methods for the treatment and diagnosis of immune disorders
IN Levinson, Douglas Adam, Sherborn, MA, United States
Gimeno, Carlos J., Boston, MA, United States
PA Millennium Pharmaceuticals, Inc., Cambridge, MA, United States (U.S. corporation)
PI US 6020142 20000201
AI US 1997-870815 19970606 (8)
RLI Continuation-in-part of Ser. No. US 1996-726228, filed on 4 Oct 1996, now patented, Pat. No. US 5846780
DT Utility
FS Granted
EXNAM Primary Examiner: Brusca, John S.; Assistant Examiner: Shibuya, Mark L.
LREP Pennie & Edmonds LLP
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 5 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 4095
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates, first, to the identification of novel nucleic acid molecules, termed RATH genes and RATH gene products encoded by such nucleic acid molecules, or degenerate variants thereof, that participate in the regulation, control and/or modulation of G-protein-mediated signal transduction involved in T cell activation, including, but not limited to T helper (TH) cell and TH cell subpopulation activation. Specifically, the nucleic acid molecules of the present invention include the genes corresponding to the mammalian RATH genes, including the RATH1.1 genes. Sequence analysis indicates that the RATH genes are novel genes belonging to the RGS ("regulator of G-protein signalling") gene family, a gene family which encodes gene products involved in G-protein-mediated signal transduction.

L9 ANSWER 178 OF 184 USPATFULL on STN
AN 2000:4822 USPATFULL
TI Externally targeted prophylactic and chemotherapeutic method and agents
IN Horwitz, Marcus A., Los Angeles, CA, United States
Harth, Gunter, Los Angeles, CA, United States
PA The Regents of the University of California, Oakland, CA, United States (U.S. corporation)
PI US 6013660 20000111
AI US 1996-724814 19961002 (8)
DT Utility
FS Granted
EXNAM Primary Examiner: Degen, Nancy; Assistant Examiner: Wang, Andrew
LREP Oppenheimer, Wolff & Donnelly, L.L.P.
CLMN Number of Claims: 2
ECL Exemplary Claim: 1
DRWN 26 Drawing Figure(s); 24 Drawing Page(s)
LN.CNT 3390
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Methods and associated compositions are provided for the effective treatment of mammalian disease conditions associated with infection by pathogenic organisms through the identification of extracellular enzymes necessary for the growth or survival of the pathogenic organism and the subsequent interference with the functional activity of the identified extracellular enzyme to an extent sufficient to significantly inhibit the growth or survival of the pathogenic organism.

L9 ANSWER 179 OF 184 USPATFULL on STN
AN 1999:89281 USPATFULL
TI Methods and compositions for the treatment and diagnosis of shipping fever
IN Berget, Peter, Pittsburgh, PA, United States
Engler, Michael, Houston, TX, United States
Highlander, Sarah, Houston, TX, United States
Weinstock, George, Houston, TX, United States
PA Board of Regents, University of Texas System, United States (U.S. corporation)
PI US 5932705 19990803
AI US 1994-286690 19940805 (8)
RLI Division of Ser. No. US 1992-899100, filed on 15 Jun 1992, now patented, Pat. No. US 5336491 which is a continuation of Ser. No. US 1990-540261, filed on 18 Jun 1990, now abandoned which is a division of Ser. No. US 1987-85430, filed on 13 Aug 1987, now patented, Pat. No. US 4957739 which is a continuation of Ser. No. US 1986-935806, filed on 28 Nov 1986, now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Housel, James C.; Assistant Examiner: Shaver, Jennifer
LREP Arnold, White and Durkee
CLMN Number of Claims: 13
ECL Exemplary Claim: 1
DRWN 22 Drawing Figure(s); 21 Drawing Page(s)
LN.CNT 2252
AB Novel compositions are disclosed for use in the treatment or diagnosis of bovine pasteurellosis, commonly referred to as Shipping Fever. Cell-free Pasteurella haemolytica supernatants are employed to provide individual antigen compositions, identified through reaction with sera from naturally-infected or convalescent cattle. In particular, at least seven individual P. haemolytica antigen groups were recognized in cell-free culture supernatants. Purified P. haemolytica supernatant, formulated in a suitable pharmaceutical vaccine composition is shown to elicit a specific immune response, in both cows and rabbits, directed against the individual immunoreactive P. haemolytica polypeptides identified. Also disclosed are novel recombinant cells, plasmids and bacteriophage which include transcriptionally active P. haemolytica antigen genes. Recombinant clones are similarly selected to be reactive with naturally-infected antisera. Examples, and further disclosure, are also provided which demonstrate the utility of a presently disclosed antibody and antigen compositions in immuno-detection of both antigens and antibodies in various biological samples.

L9 ANSWER 180 OF 184 USPATFULL on STN
AN 96:85038 USPATFULL
TI Peptides representing epitopic sites for bacterial and viral meningitis causing agents and their CNS carrier and uses thereof
IN Alstyne, Diane V., Vancouver, Canada
Sharma, Lawrence R., Vancouver, Canada
PA Insight Biotek, Inc., St. Michaels, Barbados (non-U.S. corporation)
PI US 5556757 19960917
AI US 1995-482847 19950607 (8)
RLI Division of Ser. No. US 1993-127499, filed on 28 Sep 1993
DT Utility
FS Granted
EXNAM Primary Examiner: Parr, Margaret; Assistant Examiner: Loring, Susan A.
LREP Foley & Lardner
CLMN Number of Claims: 2
ECL Exemplary Claim: 1
DRWN 13 Drawing Figure(s); 9 Drawing Page(s)
LN.CNT 2692
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Peptides comprising a Meningitis Related Homologous Antigenic Sequence (MRHAS) are provided. The MRHAS is found in meningitis-causing organisms and chemokines involved in cell chemotaxis. The peptides are useful as antigens and vaccines for detection, diagnosis and treatment of meningitis.

L9 ANSWER 181 OF 184 USPATFULL on STN

AN 96:34042 USPATFULL

TI Antibodies which bind meningitis related homologous antigenic sequences

IN Van Alstyne, Diane, Vancouver, Canada

Sharma, Lawrence R., Vancouver, Canada

PA Insight Biotech Inc., St. Michael, Barbados (non-U.S. corporation)

PI US 5510264 19960423

AI US 1993-127499 19930928 (8)

DT Utility

FS Granted

EXNAM Primary Examiner: Parr, Margaret; Assistant Examiner: Loring, Susan A.

LREP Foley & Lardner

CLMN Number of Claims: 24

ECL Exemplary Claim: 1

DRWN 13 Drawing Figure(s); 9 Drawing Page(s)

LN.CNT 2721

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Monoclonal antibodies capable of binding to a Meningitis Related Homologous Antigenic Sequence (MRHAS) are provided. The MRHAS is found in meningitis-causing organisms and chemokines involved in cell chemotaxis. The monoclonal antibodies are useful for detection and diagnosis of meningitis.

L9 ANSWER 182 OF 184 USPATFULL on STN

AN 94:68584 USPATFULL

TI Methods and compositions for the treatment and diagnosis of shipping fever

IN Berget, Peter, Pittsburgh, PA, United States

Engler, Michael, Houston, TX, United States

Highlander, Sarah, Houston, TX, United States

Weinstock, George, Houston, TX, United States

PA Board of Regents, The University of Texas System, Austin, TX, United States (U.S. corporation)

PI US 5336491 19940809

AI US 1992-899100 19920615 (7)

DCD 20070918

RLI Continuation of Ser. No. US 1990-540261, filed on 18 Jun 1990 which is a continuation of Ser. No. US 1987-85430, filed on 13 Aug 1987, now patented, Pat. No. US 4957739 which is a continuation of Ser. No. US 1986-935806, filed on 28 Nov 1986, now abandoned

DT Utility

FS Granted

EXNAM Primary Examiner: Nucker, Christine M.; Assistant Examiner: Sidberry, H. F.

LREP Arnold, White & Durkee

CLMN Number of Claims: 22

ECL Exemplary Claim: 1

DRWN 18 Drawing Figure(s); 14 Drawing Page(s)

LN.CNT 2144

AB Novel compositions are disclosed for use in the treatment or diagnosis of bovine pasteurellosis, commonly referred to as Shipping Fever. Cell-free *Pasteurella haemolytica* supernatants are employed to provide individual antigen compositions, identified through reaction with sera from naturally-infected or convalescent cattle. In particular, at least seven individual *P. haemolytica* antigen groups were recognized in cell-free culture supernatants. Purified *P. haemolytica* supernatant, formulated in a suitable pharmaceutical vaccine composition is shown to elicit a specific immune response, in both cows and rabbits,

directed against the individual immunoreactive *P. haemolytica* polypeptides identified. Also disclosed are novel recombinant cells, plasmids and bacteriophage which include transcriptionally active *P. haemolytica* antigen genes. Recombinant clones are similarly selected to be reactive with naturally-infected antisera. Examples, and further disclosure, are also provided which demonstrate the utility of a presently disclosed antibody and antigen compositions in immuno-detection of both antigens and antibodies in various biological samples.

L9 ANSWER 183 OF 184 USPATFULL on STN
AN 90:73305 USPATFULL
TI Pharmaceutical compositions of a 105 kD *P. Haemolytica* derived antigen useful for treatment of Shipping Fever
IN Berget, Peter, Pittsburg, PA, United States
Engler, Michael, Houston, TX, United States
Highlander, Sarah, Houston, TX, United States
Weinstock, George, Houston, TX, United States
PA Board of Regents, The University of Texas System, Austin, TX, United States (U.S. corporation)
PI US 4957739 19900918
AI US 1987-85430 19870813 (7)
DT Utility
FS Granted
EXNAM Primary Examiner: Draper, Garnette; Assistant Examiner: Kushan, Jeff
LREP Arnold, White & Durkee
CLMN Number of Claims: 6
ECL Exemplary Claim: 1
DRWN 18 Drawing Figure(s); 14 Drawing Page(s)
LN.CNT 2109
AB Novel compositions are disclosed for use in the treatment or diagnosis of bovine pasteurellosis, commonly referred to as Shipping Fever. Cell-free *Pasteurella haemolytica* supernatants are employed to provide individual antigen compositions, identified through reaction with sera from naturally-infected or convalescent cattle. In particular, at least seven individual *P. haemolytica* antigen groups were recognized in cell-free culture supernatants. Purified *P. haemolytica* supernatant, formulated in a suitable pharmaceutical vaccine composition is shown to elicit a specific immune response, in both cows and rabbits, directed against the individual immunoreactive *P. haemolytica* polypeptides identified. Also disclosed are novel recombinant cells, plasmids and bacteriophage which include transcriptionally active *P. haemolytica* antigen genes. Recombinant clones are similarly selected to be reactive with naturally-infected antisera. Examples, and further disclosure, are also provided which demonstrate the utility of a presently disclosed antibody and antigen compositions in immunodetection of both antigens and antibodies in various biological samples.

L9 ANSWER 184 OF 184 JAPIO (C) 2006 JPO on STN
AN 2005-104983 JAPIO
TI ABUNDANT EXTRACELLULAR PRODUCT, METHOD FOR PRODUCING THE SAME AND USE THEREOF
IN HORWITZ MARCUS A
PA UNIV CALIFORNIA
PI JP 2005104983 A 20050421 Heisei
AI JP 2004-321293 (JP2004321293 Heisei) 20041104
PRAI US 1993-156358 19931123
US 1994-289667 19940812
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2005
AB PROBLEM TO BE SOLVED: To provide a new vaccine for applying to stimulate effective immune response to infectious pathogens of *Mycobacterium* in mammalian hosts.
SOLUTION: The vaccines comprise at least one major extracellular product selected from a group consisting

of 110kD protein, 80kD protein, 71kD protein, 58kD protein, 45kD protein,
32A kD protein, 32B kD protein, 30kD
protein, 24kD protein, 23.5kD protein, 23kD protein, 16kD protein, 14kD
protein and 12kD protein each of *M. tuberculosis*.
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